



Government Publications CAI EC - 79C18

CANDIDE MODEL 2.0

MODEL DESCRIPTION







PRICES AT THE INDUSTRY LEVEL INCLUDING NOMINAL VALUES FOR PRODUCTION

Once money wages are formed and industry specific wagebill determined, we combine this information with industry specific output from the production side of the model to derive estimates of unit labour cost by industry. Unit labour cost, constructed in this fashion, is influenced by both money wage rates and productivity or output per manhour. Furthermore, using industry specific information on capital stock and user cost we construct measures of industry specific unit capital cost. These indicators (money wages, labour productivity and unit capital cost), in addition to influences from foreign prices and capacity pressure variables, are the main determinants of industry specific prices. The detail for industry prices is identical to the real output aggregation levels mentioned previously and is recorded in Table 1. Once sector prices are determined, by using the appropriate price times quantity identities, we obtain estimates for nominal values of production at the industry level.

When considering what factors influence industry specific price formation we divide the 48 industries in Table 1 into 3 specific subgroups. Industries 1 through

36 compose the commercial sector. The sector prices associated with these industries are influenced by domestic wage cost, labour productivity, unit capital cost, foreign prices and capacity pressure variables. Industries 37 through 43 compose the noncommercial sector. It was previously mentioned that these sector prices are in fact indices of wage rates. Industries 46 through 48 include indirect tax and subsidy deflators. These deflators trace the movement of (1) base valuation and (2) tax and subsidy rates.

The equations associated with these seven deflators (the noncommercial sector) are specified and estimated in a way similar to the wage rate equations in the commercial sector discussed in the previous section. These are influenced by inflation expectations and labour market tightness measures (such as the prime age male unemployment rate). The seven deflators influence the final demand prices associated with government purchases of goods and services. In the treatment of government purchases of goods and services we separate the behaviour of real wages and salaries and the behaviour of real purchases of other goods and services. In fact, these equations are the reaction functions discussed in the section on government purchases of goods and services. The indicator of real purchases of services (employment), when combined with the associated final demand

deflators (which are directly influenced through price conversion by the seven deflators associated with the noncommercial sector), produces an estimate of wagebill by level of government. These estimates of wagebill by level of government are then aggregated to the National Accounts total. The National Accounts total is fed to an identity which provides an estimate of average hourly compensation paid the public administration by dividing wagebill by manhours.

Manhours worked in the public sector is derived in the manhours, hours, and employment block of the model. It is influenced by real domestic product, with no adjustment for productivity. Real domestic product in the public sector depends upon the real expenditure vector which is formed by reaggregating the results obtained from the reaction functions to the 12 items indicated in Table 2 (government purchases of goods and services). Six of these items are value-added concepts.

In summary, wage determination in the public sector occurs in the sector price block. Seven prices in this block are modelled as wage rate equations. This information finds its way to the wagebill block through a series of identities and related stochastic equations. It is clear that if we were to have stochastic equations for

both sector prices in the noncommercial sector and the money wage rate in the government sector the system would be overdetermined.

There is a third class of sector deflators. indices are associated with industries 46, 47, and 48: commodity indirect taxes, noncommodity indirect taxes and subsidies. These indices are formed by three identities. The denominators of these identities are obtained from output conversion. They represent the real value of commodity indirect taxes, noncommodity indirect taxes, or subsidies. Movements in the denominators occur only as a result of changes in quantities. Movements do not occur as a result of tax rate changes or price changes. The numerators of these three identities are obtained by aggregating the various tax and subsidies items by level of government to the required accounting framework (commodity, noncommodity, subsidies). These equations are located in the government revenue and expenditure block. The time series associated with the numerators are influenced by price movements, quantity movements, and tax rate changes. The indices formed by division are indices of tax rates and base valuations.

In summary, the mechanics of sector price formation is derived into three groups: (1) the commercial

sector composed of the first 36 industries in Table 1 is influenced by money wage rates, productivity, unit capital cost, foreign prices, and capacity pressure variables: (2) the seven sector deflators associated with the noncommercial sector, (industries 37 through 44) are in fact indices of wage rates and therefore are modelled accordingly (here the major influence is inflation expectations and labour market tightness); (3) the price indices associated with commodity indirect taxes, noncommodity indirect taxes, and subsidies are formed from three identities. The numerator of each finds its way to the sector price block from the revenue and expenditure side of the government accounts, after aggregating indirect taxes and subsidies to the required accounting framework. The corresponding denominator finds its way to the sector price block from output conversion. It is a proxy for the real value of these taxes assuming no price or tax rate changes.

VARIABLES DETERMINED OUTSIDE THE GROSS DOMESTIC PRODUCT BLOCK

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DURATE
EIBTCD
ESUB
GE.SUB\$
HMFDR331.39
IKAGFTM
IKMIMMCS1.9
200
INCAGETM
IUCCOMMM543.8
IUCFIREC/01.3/
IUCMFDM351.9
I UCMFNDM151.3
IUCMFNDM391.9
IUCMICLM61
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IUCTRSPM501.27
IUCUTILC572.9
IUCUTILM572.9
MMFDR291.94
MMFDR295.98
MMFDR3Ø1.09
MMFND271.74
MMFND365.69
MMFND372.79
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PTE.CA.PULPW
PIM.CA.CHEMW
PTM.CA.FUPTW
PTM.CA.INMAW
PTM.CA.IRASW
DIM CA.MCMFKW
PTM.CA.MTRVEHW
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WBAGFT1.21+41.7 WBMFDR321+326.9 PTM.CA.TRANSPW XAGFT1.21+41.7 XCNST404.21 WBFIRE701.37 WBFSTY31.9 PTM.CA.NOFRW PIM.CA.PETOW PTM.CA. TEXMW WBMFDR251,59 WBMFDR261.68 WBMFDR323.24 WBMFDR311.18 WBMFDR331.39 WBMFDR351.59 WBMFND101.09 WBMFND151.53 WBMFND162.65 WBMFND172.79 VBMFND231.49 WBMFND286.89 XMFDR321+26.9 WBMFND391.99 WBTRAD602.99 WBCOMM+TRSP WMFND372.79 WMINM71.87 WMFDR291,94 WMFDR295.98 WMFDR301.09 WMFND181.89 WMFND365.69 WMFND271.74 COMM543.48 KFIRE701.37 KGPAF902.09 XMFDR251,59 XMFDR261.68 ..98 XMFDR291.94 XMFDR295.98 XMFDR301.09 XMFDR311.18 WBMFDR325 KGPA902.51 KGPAFND909 (FSTY31.9 (GHOSP821 KGPAFD902 WBMICL61 KGPAP931 KIBTNCDS KGPAL951 XIBTCD\$ XMFDR29 KG PS ED NCNST RTST RUCW XMFDR WBSV AVE HRLY BARNS - CONSTRUCTION
AVE HRLY BARNS - IRON & STEEL INDST
AVE HRLY BARNS - HONDERROUGH METAL INDST
AVE HRLY BARNS - METAL FARRICATING INDST
AVE HRLY BARNS - TEXTILE INDST
AVE HRLY BARNS - PAPER & ALLIED INDST
AVE HRLY BARNS - PETROLEUM & COAL PROD INDST
AVE HRLY BARNS - CHEMICAL & CHEMICAL PROD INDST
AVE HRLY BARNS - CHEMICAL & CHEMICAL PROD INDST
AVE HRLY BARNS - NON METAL MINING (EX COAL) INDST WAGEBILL - MOTOR VEHICLE INDST (EX PARTS & ACC)
WAGEBILL - MOTOR VEHICLE PARTS & ACC INDST RDP, PRIMARY, SECONDARY & NON UNIV POST SEC ED INDIRECT BUSINESS TAX - COMMODITIES IMPORT PRICE - CRUDE PETROLEUM - WORLD
IMPORT PRICE - TRYILEGS & MATERIALS - WORLD
IMPORT PRICE - TRANSPORT EQUIPMENT - WORLD
DWELLING UNIT STOCK, END OF YEAR, TOTAL WAGEBILL - TOBACCO PRODUCTS INDST WAGEBILL - RUBBER & FLASTIC PROD INDST WAGEBILL - RATHER INDUSTRIES WAGEBILL - RNITTING & CLOTHING MILLS INDST WAGEBILL - PRINTING, PUBLISH & ALLIED INDST WAGEBILL - MISC MANUPACTURING INDST WAGEBILL - COAL MINIG INDUSTRIES USER COST OF CAPITAL, RESIDENTIAL, WEIGHTED WAGEBILL - AGRICULTURE, FISH & TRAPPING WAGEBILL - COMMUNICATION & TRANSPORTATION PUBLIC ADMINISTRATION (INCL DEF), TOTAL PUBLIC ADMINISTRATION, FEDERAL TOTAL PUBLIC ADMINISTRATION, FED DOEF PUBLIC ADMINISTRATION, LOCAL GOVT PUBLIC ADMINISTRATION, LOCAL GOVT PUBLIC ADMINISTRATION, ROCAL GOVT - NON METALLIC MINERAL PROD INDST WAGEBILL - MACHINERY (EX ELEC MACH) INDST WAGEBILL - NON AUTO TRANSP EQUIP INDST WAGEBILL - WHOLESALE & RETAIL TRADE INDST PRICE - NONFERROUS METALS - WORLD WAGEBILL - FIN INS & REAL ESTATE INDST WAGEBILL - FORESTRY INDUSTRIES WAGEBILL - WOOD INDUSTRIES INDIRECT BUSINESS TAX - NONCOMMODITIES WAGEBILL - FURNITURE & FIXTURE INDST AGRICULTURE, FISH & TRAP INDST CONSTRUCTION INDST MACHINERY (EX ELEC MACH) INDST MANUFACTURING, DURABLES, TOTAL WOOD INDUSTRIES NON AUTO TRANSPORT EQUIP INDST WAGEBILL - ELECTRICAL PROD INDST WAGEBILL - NON METALLIC MINERAL F WAGEBILL - FOOD & BEVERAGE INDST FIN INS & REAL ESTATE INDST FORESTRY INDUSTRIES FURNITURE & FIXTURE INDST IRON & STEEL INDST NONFERROUS METAL INDST METAL FABRICATING INDST COMMUNICATION INDST PRIMARY METAL INDST MANUFACTURING TOTAL WAGEBILL - SERVICES HOSPITALS RDP, RDP, RDP, RDP, RDP, RDP, RDP, AVE AVE RDP, AVE AVE AVE AVE AVE RDP, RDP. AVE RDP RDP, RDP, RDP, RDP,

VARIABLES EXOGENOUS TO THE GROSS DOMESTIC PRODUCT BLOCK

PXDUMMY66 PXDUMMY69 PXDUMMY61 BLOCK BLOCK BLOCK RDP RDP RDP SECTOR DEFLATOR, SECTOR DEFLATOR, SECTOR DEFLATOR,

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PXDUMMY74

PXDUMMY73

BLOCK BLOCK

RDP

SECTOR DEFLATOR, SECTOR DEFLATOR,

VARIABLE - S

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DUMMY

RDP

XMICP64+96.9 XTRAD602.99 XTRSP501.27 XUTIL572.79 KSVHGED8 06 XMINM71.87 KMIMM51.9 KRENTOOD KSVCM SVNC KRDP

XMFND365.69 XMFND372.79 XMFND391,99 XMFND286.89 XMICL61 XMI

XMFND271.74

XMFND231.49 XMFND181.89

CRD PET NATL GAS & SRVS INCID TO MINING INDST

REAL DOMESTIC PRODUCT, TOTAL ECONOMY NON METAL MINING (EX COAL) INDST COMMERCIAL SERVICES INDST OWNER OCCUPIED DWELLINGS METAL MINING INDUSTRIES

OTHER NONCOMMERCIAL SERVICES INDST COLLEGE & UNIVERSITY EDUCATION WHOLESALE & RETAIL TRADE INDST

TRANSPORTATION INDST

UTILITY INDUSTRIES

RDP, RDP,

RDP,

RDP,

RDP,

RDP,

RDP,

RDP,

RDP,

COAL MINING INDST MINING TOTAL

RDP,

RDP,

RDP,

CHEMICAL & CHEMICAL PROD INDST MISC MANUFACTURING INDST

PRINTING, PUBLISH & ALLIED INDST PETROLEUM & COAL PROD INDST

RDP, RDP, RDP,

KNITTING MILLS & CLOTHING INDST PAPER & ALLIED INDST TEXTILE INDUSTRIES

RDP,

MANUFACTURING, NONDURABLES, TOTAL RUBBER & PLASTIC PROD INDST TOBACCO PRODUCTS INDST FOOD & BEVERAGE INDST LEATHER INDUSTRIES RDP, RDP,

RDP, RDP, RDP,

RDP,

MOTOR VEHICLE INDST (EX PARTS & ACC)

TRANSPORTATION EQUIP INDST

MOTOR VEHICLE PARTS & ACC INDST NON METALLIC MINERAL PROD INDST

ELECTRICAL PROD INDST

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XMFND

XMFDR325

XMFDR321.29 XMFDR323.24 XMFND101.09 XMFND151.53 XMFND172.79

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VARIABLES ENDOGENOUS TO THE GROSS DOMESTIC PRODUCT BLOCK (BOTH BEHAVIOURAL & IDENTITIES)

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OCTOBER, 1979
SECTION 17, PAGE 10
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               + XCNST484.215 + XTRSP501.275 + XCOMM543.485
+ XFIRE781.375 + XRENTOOD5 + XUTLL572.795
+ XTRAD602.995 + XSVCM5 + XSVNC5 + XSVHGED8065
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      XMFDR201.948 + XMFDR205.98$
XMFDR201.986 / WRFDR201.98
XMFDR31.46.95 + XMFDR303.24$ + XMFDR325$
XMFDR321.295 / XMFDR321.29
XMFDR321.595 + XMFDR321.88 + XMFDR321.98$
+ XMFDR301.995 + XMFDR31.185 + XMFDR321.295
+ XMFDR301.395 + XMFDR311.185
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      = XMFND101.095 + XMFND151.53$ + XMFND162.65$
+ XMFND172.79$ + XMFND181.89$ + XMFND231.49$
+ XMFND771.74$ + XMFND286.89$ + XMFND365.69$
+ XMFND372.79$ + XMFND391.99$
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          XAGFT1.21+41.7$ + XFSTY31.9$ + XMI$ + XMF$
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    XGPSED$ + XGHOSP821$ + XGPA902.51$
               XMFDR301.09
XMFDR311.18
* XMFDR321+26.9
                                                                                                                                                                                                                                                                                                                                                                                                                                        PXUTIL572.79 * XUTIL572.79
PXTRAD602.99 * XTRAD602.99
                                                                                                                                                                                XMFND162.65
XMFND172.79
                                                                                                                                                                                                                                                                                                           XMFND372.79
                                                                                                                                                                                                                                                                                                                                             XCNST404.21
XTRSP501.27
                                                                                                                                                                                                                                                                                                                                                                                  XCOMM543.48
XFIRE701.37
                                                                    XMFDR323.24
                                                                                                         XMFDR331,39
                                                                                                                          XMFDR351,59
                                                                                                                                            XMFND101.09
                                                                                                                                                               XMFND151.53
                                                                                                                                                                                                                   XMFND181.89
                                                                                                                                                                                                                                      XMFND231.49
                                                                                                                                                                                                                                                     XMFND271.74
                                                                                                                                                                                                                                                                         XMFND286.89
                                                                                                                                                                                                                                                                                            XMFND365.69
                                                                                                                                                                                                                                                                                                                            XMFND391.99
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             PXSVHGED806 * XSVHGED806
PXGPSED * XGPSED
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    PXGPAFND909 * XGPAFND909
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   PXGPAFD902 * XGPAFD902
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    PXGHOSP821 * XGHOSP821
PXMEDR295.98 * XMEDR29
PXMEDR301.09 * XMEDR31
PXMEDR311.18 * XMEDR31
PXMEDR321.26.9 * XMEDR3
PXMEDR323.24 * XMEDR32
PXMEDR323.5 * XMEDR325
                                                                                                                                                                                                                                                                                                                                                                                                                       PXRENTOOD * XRENTOOD
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     PXGPAL951 * XGPAL951
PXGPAP931 * XGPAP931
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               = XMFND$ / XMFND
= XMFDR$ + XMFND$
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     = XMFDR$ / XMFDR
                                                                                                                                                                                                                                                                                                                                                                                PXCOMM543.48 *
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            PXSVNC * XSVNC
                                                                                                         PXMFDR331.39 *
                                                                                                                          PXMFDR351.59 *
                                                                                                                                            * 60 . UNIONAL MX
                                                                                                                                                                                                                                                                                                                                                                                                                                                                               PXSVCM * XSVCM
                                                                                                                                                                                                                                                                                     PXMFND365.69
PXMFND372.79
PXMFND391.99
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         XRDP$ / XRDP
                                                                                                                                                                                                                                                                                                                                             PXCNST404.21
PXTRSP501.27
                                                                                                                                                                                                 PXMFND172.79
                                                                                                                                                                                                                   PXMFND181.89
                                                                                                                                                                                                                                      PXMFND231.49
                                                                                                                                                                                                                                                         PXMFND271.74
                                                                                                                                                                                                                                                                      PXMFND286.89
XMFDR295.98$
XMFDR301.09$
XMFDR311.18$
XMFDR323.24$
XMFDR323.24$
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          XGPAF902.09$
PXGPAF902.09
XGPA902.51$
PXGPA902.51
                                                                                                                                                                                                                XMFND181.89$
XMFND231.49$
XMFND271.74$
XMFND286.89$
                                                                                                                                                                                                                                                                                                                                                                                  XCOMM543.48$
XFIRE701.37$
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             PXMFDR291.98
XMFDR321.29$
PXMFDR321.29
                                                                                                                                                                                                                                                                                                                                                                                                                                                           KTRAD602.99$
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    XGPAFD9028
XGPAFD9028
XGPAFND909$
                                                                                                         XMFDR331.39$
                                                                                                                                            XMFND101.09$
                                                                                                                                                             XMFND151,53$
                                                                                                                                                                                XMFND162.65$
                                                                                                                                                                                                    XMFND172.79$
                                                                                                                                                                                                                                                                                                               XMFND372.79$
                                                                                                                                                                                                                                                                                                                                 XMFND391.99$
                                                                                                                                                                                                                                                                                                                                                  XCNST404.21$
XTRSP501.27$
                                                                                                                                                                                                                                                                                                                                                                                                                                          XUTIL572,79$
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              XMFDR291.98$
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 KSVHGED806$
                                                                                                                                                                                                                                                                                                                                                                                                                         XRENTOODS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            KGPAL951$
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         XGPAP931S
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  KGPSEDS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      XMFND$
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   PXMFND
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     XMFDR$
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           PXMFDR
                                                                                                                                                                                                                                                                                                                                                                                                                                                                               KSVCM$
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  XSVNC$
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           PXRDP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   XMFS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       XMIS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        PXMI
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           SECTOR DEFLATOR, GROSS DOMESTIC PRODUCT, TOTAL ECONOMY
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    SECTOR DEFLATOR, MANUFACTURING, TOTAL
GDP, MINING, TOTAL
GDP, MINING, TOTAL
GDP, PUBLIC ADMINSTRATION, FEDERAL, TOTAL
GDP, PUBLIC ADMIN GENERAL TOTAL
GDP, PUBLIC ADMIN (INCL DEFENCE), TOTAL
SECTOR DEFLATOR, PUBLIC ADMIN (INCL DEFENCE), TOTAL
SECTOR DEFLATOR, PUBLIC ADMIN (INCL DEFENCE), TOTAL
SECTOR DEFLATOR, PUBLIC ADMIN (TOTAL GENONY)
FOR GROUP GROUP TOTAL GENONY
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   SECTOR DEFLATOR, MANUFACTURING NONDURABLES, TOTAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           MANUFACTURING DURABLES, TOTAL
                   METAL FABRICATING INDSTANDAMMACHINER (EX ELEC AACH) INDST
MACHINERY (EX ELEC AACH) INDST
MOTOR VEHICLE INDST (EX PARTS & ACC)
MOTOR VEHICLE PARTS & ACC INDST
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 COMMERCIAL SERVICES INDST
OTHER NONCOMMERCIAL SERVICES INDST
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   COLLEGE & UNIVERSITY EDUCATION PRIMARY, SEC & NONUNIV POST SEC ED
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       PUBLIC ADMINISTRATION, FED DEF
PUBLIC ADMINISTRATION, FED NONDEF
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            LOCAL GOVT
                                                                                                                                                                                                                                                                         PRINTING, PUBLISH & ALLIED INDST
PETROLEUM & COAL PROD INDST
MISC MANURACHEINE REDD INDST
CONSTRUCTION INDUSTRIES
TRANSPORFATION INDUST
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           SECTOR DEFLATOR, MANUFACTURING DURABL GDP, MANUFACTURING NONDURABLES, TOTAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               PUBLIC ADMINISTRATION, PROV GOVT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    SECTOR DEFLATOR, PRIMARY METALS INDST
                                                                                                                                                                                                                                        KNITTING MILLS & CLOTHING INDST
PAPER & ALLIED INDST
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 GDP, TRANSPORTATION EQUIPMENT INDST
SECTOR DEFLATOR, TRANSP EQUIP INDST
GDP, MANUFACTURING DURABLES, TOTAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                WHOLESALE & RETAIL TRADE INDST
                                                                                                                               NONMETALLIC MINERAL PROD INDST
FOOD & BEVERAGE INDST
                                                                                                                                                                 TOBACCO PRODUCTS INDST
RUBBER & PLASTIC PROD INDST
LEATHER INDUSTRIES
                                                                                                                                                                                                                                                                                                                                                                                      COMMUNICATION INDST
FIN INS & REAL ESTATE INDST
OWNER OCCUPIED DWELLINGS
      NONFERROUS METAL INDUSTRIES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            PUBLIC ADMINISTRATION,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                PRIMARY METALS INDST
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       GDP, MANUFACTURING, TOTAL
                                                                                                                                                                                                                         TEXTILE INDUSTRIES
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UTILITY INDST

HOSPITALS

GDP,

XMFDR295.98

CANDIDE MODEL

= XIBTCD\$ / (EIBTCD * .99992) = XIBTNCD\$ / (EIBTNCD * .999884) = GE.SUB\$ / (ESUB * .999611)

> PXIBTCD PXIBTNCD PXSUB

SECTOR DEFLATOR, INDIRECT BUSINESS TAX - COMMODITIES SECTOR DEFLATOR, INDIRECT BUSINESS TAX - NONCOMMODITIES SECTOR DEFLATOR, SUBSIDIES

Name: Sector Deflator, Agriculture, Fishing and Trapping

Period: 1954-74 Mnemonic: PXAGFT1.21+41.7

PXAGFT1.21+41.7

= - .072378 (2.29)

> + .55347 PTE . CA . AGRW

(16.01)

+ .32712 PXDUMMY73

(8.25)

+ .51191 (((WBAGFT1.21+41.7 + IUCAGFTM * IKAGFTM) (10.68)/ (WBAGFT1.21+41.7(1971) + IUCAGFTM(1971)

* IKAGFTM(1971))) / (XAGFT1.21+41.7

/ XAGFT1.21+41.7(1971)))

+ sum(i=0,4)b(i) ((XAGFT1.21+41.7(-i) - XAGFT1.21+41.7(-i-1)) * 100 / XAGFT1.21+41.7(-i-1))

i t(i) b(i)

0 +.0025523 (2.55) 1 +.0033808 (2.88)

2 +.0036032 (2.92)

+.0032193 (3.19)4 +.0022291 (2.98)

sum + .014985 (3.34)

(2,5,NONE)

 $R^2 = .991$

SEE = .0365 D.W. = 2.016

D.W. = 1.805

Equation No.: 2406

Name: Sector Deflator, Forestry

Mnemonic: PXFSTY31.9 Period: 1949-74

ln(PXFSTY31.9)

= + .92945 (3.87)

+ .95720 ln((WBFSTY31.9 / XFSTY31.9)

(12.06) / (WBSTY31.9(1971) / XFSTY31.9(1971)))

- .12952 ln(XFSTY31.9)

(3.29)

 $R^2 = .854$ SEE = .0530

Equation No.: 2407

Name: Sector Deflator, Coal

Mnemonic: PXMICL61 Period: 1957-74

ln(PXMICL61)

= + .99497 (3.19)

> + .10028 ln((WBMICL61 / XMICL61) / (WBMICL61(1971) (1.54) / XMICL61(1971)))

- .13893 ln(XMICL61)

(2.14)

+ .25571 ln(IUCMICLM61)

(3.67)

+ .59951 In(PTM.CA.COALW)

(8.62)

 $R^2 = .964$ SEE = .0413 D.W. = 2.697

Name: Sector Deflator, Petroleum, Gas and Mining Services

Mnemonic: PXMICP64+96.9 Period: 1958-74

(PXMICP64+96.9 - PXMICP64+96.9(-1)) * 100 / PXMICP64+96.9(-1)

= + sum(i=0,2)b(i) ((IUCMIPM64+96.9(-i) - IUCMIPM64+96.9(-i-1)) * 100 / IUCMIPM64+96.9(-i-1))

+ sum(i=0,2)c(i) ((PTM.CA.PETOW(-i) - PTM.CA.PETOW(-i-1)) * 100 / PTM.CA.PETOW(-i-1))

i	b(i)	t(i)	c(i)	t(i)
0	+.16125	(1.33)	+.25387	(10.43)
1	+.10509	(1.54)	+.17947	(3.23)
2	+.048933	(0.39)	+.10506	(0.87)
sum	+.31527	(1.54)	+.53840	(3.23)
	(1,3,NONE)		(1,3,NONE)	

 $R^2 = .919$ SEE = 4.423 D.W. = 2.235

Equation No.: 2409

Name: Sector Deflator, Metal Mining

Mnemonic: PXMIMM51.9 Period: 1958-74

PXMIMM51.9

= + .017701 (0.25)

> + 5.95321 (((IUCMIMMC51.9 * IKMIMMC51.9) (13.14) + (IUCMIMMM51.9 * IKMIMMM51.9)) / (IKMIMMC51.9 + IKMIMMM51.9))

 $R^2 = .915$ SEE = .0759 D.W. = .866

Name: Sector Deflator, Nonmetal Mines and Quarries

Mnemonic: PXMINM71.87 Period: 1960-74

ln(PXMINM71.87)

= + .048880 (0.32)

+ .13936 ln(WMINM71.87)

(3.16)

- .11097 ln(XMINM71.87 / MMINM71.87)

(1.34)

- .066034 PXDUMMY74

(1.61)

 $\overline{R}^2 = .358$ SEE = 0.0339 D.W. = 1.391

Equation No.: 2411

Name: Sector Deflator, Wood Products Excluding Furniture

Mnemonic: PXMFDR251.59 Period: 1957-74

ln(PXMFDR251.59)

= + .096202 (3.67)

+ .34703 ln(PXMFDR251.59(-1))

(1.40)

+ .68911 ln((WBMFDR251.59 / XMFDR251.59)

(3.15) / (WBMFDR251.59(1971) / XMFDR251.59(1971)))

 $\overline{R}^2 = .907$ SEE = .073 D.W. = 1.753

Equation No.: 2412

Name: Sector Deflator, Furniture and Fixtures

Mnemonic: PXMFDR261.68 Period: 1957-74

ln(PXMFDR261.68)

= + .056648 (2.92)

+ .42089 ln(PXMFDR261.68(-1))

(2.14)

+ .61758 ln((WBMFDR261.68 / XMFDR261.68)

(4.18) / (WBMFDR261.68(1971) / XMFDR261.68(1971)))

 $R^2 = .964$ SEE = .032 D.W. = 0.521 RHO = .680

Equation No.: 2413

Name: Sector Deflator, Iron and Steel

Mnemonic: PXMFDR291.94 Period: 1959-74

(PXMFDR291.94 - PXMFDR291.94(-1)) * 100 / PXMFDR291.94(-1)

/ MMFDR291.94(-i-1))) * 100

/ (XMFDR291.94(-i-1) / MMFDR291.94(-i-1)))

$$i$$
 $b(i)$ $t(i)$ $c(i)$ $t(i)$

(1,2,NONE) (1,2,NONE)

$$R^2 = .702$$
 SEE = 2.180 D.W. = 2.276

Name: Sector Deflator, Primary Nonferrous Metals

Mnemonic: PXMFDR295.98 Period: 1959-74

(PXMFDR295.98 - PXMFDR295.98(-1)) * 100 / PXMFDR295.98(-1)

= + .55484 ((WMFDR295.98 - WMFDR295.98(-1)) (1.85) * 100 / WMFDR295.98(-1))

+ sum(i=0,1)b(i) (((XMFDR295.98(-i) / MMFDR295.98(-i)

- (XMFDR295.98(-i-1) / MMFDR295.98(-i-1))) * 100

/ (XMFDR295.98(-i-1) / MMFDR295.98(-i-1)))

+ sum(i=0,2)c(i) ((PTM.CA.NOFRW(-i) - PTM.CA.NOFRW(-i-1))
* 100 / PTM.CA.NOFRW(-i-1))

i	b(i)	t(i)	c(i)	t(i)
0	12610	(0.37)	+.25083	(2.02)
1	70681	(1.72)	+.21922	(1.93)
2			+.18761	(0.85)
sum	83291	(1.71)	+.65766	(1.93)
	(1,2,NONE)		(1,3,NONE)	

 $\bar{R}^2 = .357$

SEE = 5.887

D.W. = 1.987

Name: Sector Deflator, Metal Fabricating

Mnemonic: PXMFDR301.09 Period: 1959-74

(PXMFDR301.09 - PXMFDR301.09(-1)) * 100 / PXMFDR301.09(-1)

/ MMFDR301.09(-i-1)))

i	b(i)	t(i)	c(i)	t(i)
0 1 2	19284 16718	(0.93) (0.82)	+.20627 +.13904 +.071809	(6.52) (2.13) (0.51)
sum	36002	(1.14)	+.41712	(2.13)
	(1,2,NONE)		(1,3,NONE)	

$$\overline{R}^2 = .857$$
 SEE = 1.781 D.W. = 2.074

Name: Sector Deflator, Machinery

Mnemonic: PXMFDR311.18 Period: 1959-74

ln(PXMFDR311.18)

(1,3,NONE)

$$R^2 = .947$$
 SEE = .029

D.W. = 0.845

Equation No.: 2417

Name: Sector Deflator, Other Transportation Equipment

Mnemonic: PXMFDR321+26.9 Period: 1957-74

ln(PXMFDR321+26.9)

= - .045636 (2.91)

+ .54012 ln((WBMFDR321+326.9 / XMFDR321+26.9)

(2.52) / (WBMFDR321+326.9(1971) / XMFDR321+26.9(1971)))

+ .52193 ln(PTM.CA.TRANSPW)

(2.22)

 $R^2 = .881$ SEE = .049 D.W. = 1.014

Name: Sector Deflator, Motor Vehicles

Mnemonic: PXMFDR323.24 Period: 1959-74

ln(PXMFDR323.24)

(1,3,NONE)

$$R^2 = .845$$

$$SEE = .045$$

$$D.W. = 1.689$$

Equation No.: 2419

Name: Sector Deflator, Motor Vehicle Parts and Accessories

Mnemonic: PXMFDR325 Period: 1957-74

ln(PXMFDR325)

= + .41534(2.34)

> ln((WBMFDR325 / XMFDR325) + .25376

/ (WBMFDR325(1971) / XMFDR325(1971))) (1.43)

+ .25486 ln(IUCMFDM325)

(2.16)

+ .61254 ln(PXMFDR325(-1))

(3.74)

 $R^2 = .934$ SEE = .059 D.W. = 1.602

Name: Sector Deflator, Electrical Apparatus and Supplies

Mnemonic: PXMFDR331.39 Period: 1957-74

ln(PXMFDR331.39)

= + .0064118 (0.54)

> + .55387 ln(PXMFDR331.39)(-1) (2.24)

+ 7.97009 (ln(HMFDR331.39) - ln(HMFDR331.39(-1)))(1.41)/ ln(HMFDR331.39(-1))

+ sum(i=0,1)b(i)ln((WBMFDR331.39(-i) / XMFDR331.39(-i)) / (WBMFDR331.39(1971) / XMFDR331.39(1971)))

b(i) t(i) i

0 +.59947 (3.33) **-.21868** (1.05)

sum + .38079 (2.18)

(1,2,NONE)

 $R^2 = .853$ SEE = .032 D.W. = 1.394

Name: Sector Deflator, Nonmetallic Mineral Products

Mnemonic: PXMFDR351.59 Period: 1959-74

ln(PXMFDR351.59)

= + .18834 (2.18)

+ .52661 ln(PXMFDR351.59)(-1)
(2.31)

+ sum(i=0,2)b(i) ln((WBMFDR351.59(-i)) / XMFDR351.59(-i)) / (WBMFDR351.59(1971) / XMFDR351.59(1971)))

+ sum(i=0,1)c(i) ln(IUCMFDM351.9(-i))

b(i) t(i) c(i) t(i) i +.081579 (1.20) +.20563 (4.27)0 1 +.088327 (2.01) -.088604 (1.52) +.095075 (1.42)sum +.26498 (2.01) +.11703 (1.98)

(1,3,NONE) (1,2,NONE)

 $R^2 = .987$ SEE = .014 D.W. = 1.817

Name: Sector Deflator, Food and Beverages

Mnemonic: PXMFND101.09 Period: 1960-74

ln(PXMFND101.09)

= + .037520 (1.03)

> + sum(i=0,2)b(i) (ln(HMFND101.09(-i)) - ln(HMFND101.09(-i-1))) / (ln(HMFND101.09(-i-1)))

+ sum(i=0,2)c(i) ln((WBMFND101.09(-i) / XMFND101.09(-i)) / (WBMFND101.09(1971) / XMFND101.09(1971)))

+ .74778 ln(PXMFND101.09(-1)) (3.46)

i	b(i)	t(i)	c(i)	t(i)
0 1 2	+9.60486 +6.74330 +3.88173	(1.74) (2.05) (1.07)	+.38914 +.090264 20861	(1.28) (1.55) (0.59)
sum	+20.22990	(2.05)	+.27079	(1.55)
	(1,3,NONE)		(1,3,NONE)	

 $\overline{R}^2 = .982$ SEE = .0173 D.W. = 2.340

Name: Sector Deflator, Tobacco and Tobacco Products

Period: 1959-74 Mnemonic: PXMFND151.53

PXMFND151.53

= + .020974 (0.18)

> + .87284 (2.53)

IUCMFNDM151.3

+ sum(i=0,2)b(i) ((WBMFND151.53(-i) / XMFND151.53(-i)) / (WBMFND151.53(1971) / XMFND151.53(1971)))

i b(i) t(i)

0 +.27029 (1.34)

+.24310 (4.41) 1

2 +.21591 (0.98)

sum + .72930 (4.41)

(1,3,NONE)

 $R^2 = .927$ SEE = .038 D.W. = 1.497 RHO = .337

Name: Sector Deflator, Rubber and Plastic Products

Mnemonic: PXMFND162.65 Period: 1959-74

PXMFND162.65

= + .14121 (1.12)

+ sum(i=0,2)c(i) IUCMFNDM162.5(-i)

i	b(i)	t(i)	c(i)	t(i)
0	+.55121	(2.81)	+1.01576	(2.74)
1	+.20573	(4.36)	+ .26610	(2.73)
2	13976	(0.94)	48357	(1.20)
sum	+.61718	(4.36)	+ .79829	(2.73)
	(1,3,NONE)		(1,3,NONE)	

 $\overline{R}^2 = .831$ SEE = .037 D.W. = 1.643

Equation No.: 2425

Name: Sector Deflator, Leather Products

Mnemonic: PXMFND172.79 Period: 1958-74

PXMFND172.79

= + .034348
 (0.50)

+ .611200 PXMFND172.79(-1) (2.66)

+ sum(i=0,1)b(i) ((WBMFND172.79(-i) / XMFND172.79(-i)) / (WBMFND172.79(1971) / XMFND172.79(1971)))

i b(i) t(i)

0 +.74306 (2.42) 1 -.37499 (0.94)

sum +.36807 (1.86)

(1,2,NONE)

 $R^2 = .967$ SEE = .0276 D.W. = 1.322

Name: Sector Deflator, Textiles

Mnemonic: PXMFND181.89 Period: 1960-74

(PXMFND181.89 - PXMFND181.89(-1)) * 100 / PXMFND181.89(-1)

$$\frac{-2}{R^2} = .800$$
 SEE = 1.996 D.W. = 2.147

Equation No.: 2427

Name: Sector Deflator, Knitting Mills and Clothing

Mnemonic: PXMFND231.49 Period: 1958-74

ln(PXMFND231.49)

= + .018184 (1.35)

+ .54745 ln(PXMFND231.49(-1)) (2.10)

+ sum(i=0,1)b(i) ln((WBMFND231.49(-i)) / XMFND231.49(-i)) / (WBMFND231.49(1971) / XMFND231.49(1971)))

i b(i) t(i)

0 +.67545 (3.38) 1 -.23012 (0.98)

sum +.44533 (2.10)

(1,2,NONE)

 $R^2 = .974$ SEE = .022 D.W. = 1.633

Equation No.: 2428

Name: Sector Deflator, Paper Products

Mnemonic: PXMFND271.74 Period: 1961-74

((PXMFND271.74 / PXMFND271.74(-1)) - 1) * 100

= + 0.20584 (((WMFND271.74 / WMFND271.74(-1)) - 1) * 100) (1.29)

- 0.30602 ((((XMFND271.74 / MMFND271.74) / (XMFND271.74(-1)

+ 0.76546 (((PTE.CA.PULPW / PTE.CA.PULPW(-1)) - 1) * 100)
(13.18)

 $R^2 = 0.960$ SEE = 2.742 D.W. = 1.359

Name: Sector Deflator, Printing, Publishing and Allied

Period: 1959-74 Mnemonic: PXMFND286.89

ln(PXMFND286.89)

= + .036415(1.61)

> + sum(i=0,2)b(i) ln((WBMFND286.89(-i) / XMFND286.89(-i)) / (WBMFND286.89(1971) / XMFND286.89(1971)))

i b(i) t(i)

0 +.64599 (3.27)(17.08) +.33716

+.028328 (0.13)

sum +1.01148 (17.08)

(1,3,NONE)

 $R^2 = .963$ SEE = .032 D.W. = .751

Name: Sector Deflator, Petroleum and Coal Products

Mnemonic: PXMFND365.69 Period: 1961-74

((PXMFND365.69 / PXMFND365.69(-1)) - 1) * 100

(1,3,NONE)

$$R^2 = 0.969$$
 SEE = 2.636 D.W. = 2.603

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Name: Sector Deflator, Chemical and Allied Products
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Mnemonic: PXMFND372.79 Period: 1959-74

(PXMFND372.79 - PXMFND372.79(-1)) * 100 / PXMFND372.79(-1)

$$R^2 = .834$$
 SEE = 2.517 D.W. = 2.031

Equation No.: 2432

Name: Sector Deflator, Miscellaneous Manufacturing

Mnemonic: PXMFND391.99 Period: 1957-74

ln(PXMFND391.99)

= + .21606 (1.92)

+ .37331 ln((WBMFND391.99 / XMFND391.99)

(2.98) / (WBMFND391.99(1971) / XMFND391.99(1971)))

+ .18596 ln(IUCMFNDM391.9)

(2.06)

+ .28827 ln(PTM.CA.MCMFRW)

(1.72)

 $\overline{R}^2 = .935$ SEE = .038 D.W. = .495

Equation No.: 2433

(3.20)

Name: Sector Deflator, Construction

Mnemonic: PXCNST404.21 Period: 1956-74

(PXCNST404.21 - PXCNST404.21(-1)) * 100 / PXCNST404.21(-1)

 $\overline{R}^2 = .826$ SEE = 1.971 D.W. = 2.051

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Equation No.: 2434
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Name: Sector Deflator, Transportation and Storage

Mnemonic: PXTRSP501.27 Period: 1951-74

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ln(PXTRSP501.27)
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(1,3,NONE)

$$\bar{R}^2 = .970$$

SEE = .021

D.W. = 1.496

Name: Sector Deflator, Communications

Period: 1953-74 Mnemonic: PXCOMM543.48

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ln(PXCOMM543.48)
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$$\overline{R}^2 = .973$$
 SEE = .026 D.W. = 1.956

Name: Sector Deflator, Finance, Insurance and Real Estate

Mnemonic: PXFIRE701.37 Period: 1951-74

ln(PXFIRE701.37)

= + .32449(3.34)

> + sum(i=0,2)b(i) ln((WBFIRE701.37(-i) / XFIRE701.37(-i)) / (WBFIRE701.37(1971) / XFIRE701.37(1971)))

+ sum(i=0,2)c(i) ln(IUCFIREC701.37(-i))

i	b(i)	t(i)	c(i)	t(i)
0	+.57605	(4.39)	027605	(0.65)
1	+.24838	(14.32)	+.066972	(4.07)
2	079302	(0.66)	+.16155	(3.93)
sum	+.74513	(14.32)	+.20092	(4.07)
	(1,3,NONE)		(1,3,NONE)	

 $\bar{R}^2 = .995$

SEE = .0226 D.W. = 1.835

Name: Sector Deflator, Owner Occupied Dwellings

Mnemonic: PXRENTOOD Period: 1960-74

((PXRENTOOD / PXRENTOOD(-1)) - 1) * 100

$$= + sum(i=0,5)b(i)$$
 (((RUCW(-i) / RUCW(-i-1)) - 1) * 100)

$$+ sum(i=0,2)c(i) (((RTST(-i) / RTST(-i-1)) - 1) * 100)$$

i	b(i)	t(i)	c(i)	t(i)
0 1 2 3 4 5	+ .207631 + .191318 + .175005 + .158692 + .142378 + .126065	(3.35) (3.78) (3.78) (3.13) (2.30) (1.63)	280370 241273 202177	(0.17) (1.07) (0.13)
sum	+1.00109	(3.52)	723820	(1.07)
	(1,6,NONE)		(1,3,NONE)	

 $R^2 = .512$ SEE = 2.577 D.W. = 2.160

Name: Sector Deflator, Electrical Power, Gas and Water

Mnemonic: PXUTIL572.79 Period: 1962-74

ln(PXUTIL572.79)

= - .33166 (0.52)

i	b(i)	t(i)	c(i)	t(i)
0			-1.33151	(3.76)
1			22386	(1.68)
2			+ .88380	(2.82)
3	+.15173	(4.36)		
4	+.13056	(4.95)		
5	+.10939	(4.23)		
6	+.088214	(2.63)		
7	+.067042	(1.47)		
sum	+.54692	(4.23)	67157	(1.68)
	(1,5,NONE)		(1,3,NONE)	

 $R^2 = .954$

SEE = .0155

D.W. = 2.243

Name: Sector Deflator, Wholesale and Retail Trade

Period: 1959-74 Mnemonic: PXTRAD602.99

((PXTRAD602.99 / PXTRAD602.99(-1)) - 1) * 100

= - 1.80324 PFDUM6170 (3.06)

+ sum(i=0,1)b(i) ((((WBTRAD602.99(-i) / XTRAD602.99(-i)) / (WBTRAD602.99(-i-1) / XTRAD602.99(-i-1))) - 1) * 100)

+ sum(i=0,5)c(i) (((XTRAD602.99 / XTRAD602.99(-1)) - 1) * 100)

i	b(i)	t(i)	c(i)	t(i)
0 1 2 3 4 5	+.740276 +.279506	(6.10) (1.90)	+.304522 +.180665 +.0568088 0670478 190904 314761	(6.00) (5.31) (2.27) (2.14) (4.04) (4.76)
sum	+1.01978	(6.48)	0307170	(0.19)
	(1,2,NONE)		(1,6,NONE)	

 $R^2 = .884$

SEE = 1.1767 D.W. = 1.881

Name: Sector Deflator, Commercial, Business and Personal Services

Mnemonic: PXSVCM Period: 1952-74

PXSVCM

$$= + .15957$$
 (3.53)

$$R^2 = .972$$
 SEE = .041 D.W. = 0.235 RHO = .865

Equation No.: 2441

Name: Sector Deflator, Other Noncommercial Services

Mnemonic: PXSVNC Period: 1953-74

((PXSVNC / PXSVNC(-1)) - 1) * 100

= + 0.93712 (((CPI / CPI(-1)) - 1) * 100) (9.23)

+ 7.41953 1 / DURATE (4.03)

 $\overline{R}^2 = 0.741$ SEE = 1.307 D.W. = 1.348

Equation No.: 2442

Name: Sector Deflator, Universities and Colleges

Mnemonic: PXSVHGED806 Period: 1962-74

((PXSVHGED806 / PXSVHGED806(-1)) - 1) * 100)

= + 0.85460 (((CPI / CPI(-1)) - 1) * 100) (4.89)

 $\overline{R}^2 = 0.670$ SEE = 1.574 D.W. = 1.542

Equation No.: 2443

Name: Sector Deflator, Primary, Secondary, and Nonuniversity

Education

Mnemonic: PXGPSED Period: 1954-74

(PXGPSED - PXGPSED(-1)) * 100 / PXGPSED(-1)

= + 4.64347 (5.16)

+ 7.37245 PXDUMMY61

(2.64)

+ sum(i=0,1)b(i) .CPIE(-i)

i b(i) t(i)

0 +.57369 (1.41) 1 +.43959 (0.93)

(0.53)

sum +1.01328 (3.63)

(1,2,NONE)

 $R^2 = .471$ SEE = 2.238 D.W. = .938

Name: Sector Deflator, Hospitals

Mnemonic: PXGHOSP821 Period: 1953-74

((PXGHOSP821 - PXGHOSP821(-1)) * 100 / PXGHOSP821(-1)) - .CPIE

= + 4.35086(8.18)

+ 6.10198

PXDUMMY61 (2.45)

 $\overline{R}^2 = .192$ SEE = 2.437 D.W. = 1.632





PRICES AT THE FINAL DEMAND LEVEL INCLUDING THE NOMINAL VALUES FOR FINAL DEMAND

Price conversion is the dual of final demand conversion. Final demand conversion uses Statistics Canada input-output tables to derive estimates of Real Domestic Product by industry, given a GNE expenditure vector. Price conversion is the mirror image of this problem. Here industry level price detail is converted to a final demand framework. Final demand prices are influenced among other things by (1) domestic industry prices, (2) import prices, (3) the exchange rate, (4) the import content of total supply, (5) commodity and noncommodity indirect taxes, (6) subsidies, (7) the direct and indirect content of industrial commodity supply and (8) the commodity composition of any given expenditure category. The procedure outlined below produces a set of pseudo final demand prices associated with consumption goods, investment goods, inventory goods, and government purchases of goods and services. These pseudo final demand prices are regressed on observed National Accounts data to produce estimates of the price deflators associated with the GNE expenditure vector at the disaggregated level.

During the price conversion process, several steps take place. First, domestic and foreign prices are weighted

using the Make and Use Matrices, and 1971 estimates of the import content of domestic supply. From this we obtain estimates of the price level of delivered commodities whether produced domestically or imported. The supply price is a weighted average of domestic and foreign prices, where the weights are influenced by both the direct and indirect content of commodity supply plus the import content. To accomplish this step, we assign import prices (denominated in Canadian dollars) to each of the 48 categories recorded in Table 1. These price assignments require a reweighting of some, but not all, of the import prices associated with the import vector (final demand side of the model).

The exchange rate influences final demand prices via the following route. Import and export prices in U.S. dollars are exogenous. The Canadian dollar equivalents are determined by applying the exchange rate to these exogenous indicators. Variations in the exchange rate influence final demand prices during the first step of price conversion. In weighting domestic and foreign prices to obtain an estimate of the price level associated with delivered commodities, whether produced domestically or imported, we use the Canadian dollar equivalent of the exogenous U.S. dollar import price. One should be careful in interpreting results obtained from CANDIDE Model 2.0 because this method of introducing the exchange rate assumes immediate and full pass through in any given year.

Domestic prices are available from the industry price block. Let us review the three underlying influences present here. The prices associated with the various industries recorded in Table 1 can be divided into three sub-groups. Industries 1 through 36 (the commercial sector) are sensitive to money wage rates, productivity, unit capital cost, import prices, and capacity pressure variables. Prices associated with industries 37 through 44 (noncommercial and public administration) are in fact indices of wage rates. These prices are sensitive to price expectations and labour market tightness. The prices associated with industries 46 through 48 are indices of commodity indirect taxes, noncommodity indirect taxes, subsidies and the valuation of the base upon which these taxes and subsidies are levied.

Let us review the way in which these latter three indicators (46-48) are constructed. To do this we pull together bits and pieces of the model's structure from output conversion, price conversion and the indirect tax and subsidy equations yet to be discussed. In Table 1, there are three rows (46 through 48) associated with commodity taxes, noncommodity taxes and subsidies. As previously outlined the constant dollar value of commodity indirect taxes, noncommodity indirect taxes and subsidies is the byproduct of output conversion. Assuming both tax rates and prices invariant from 1971 levels, the resulting

indices track the time profile of tax collections over the sample period for volume movements only. These time series then became the denominators of three identities whose numerators are derived in the government expenditure and revenue blocks of the model. The output of these identities tracks the implied movements of indirect tax rates and changes in base valuation (price levels) through time. tax rates are varied, the implied increase in nominal collections would increase the level of these indices. should be aware that subsidies enter with a negative weight in price conversion. As a result the effect of increasing subsidies will depress commodity prices during this step of the calculation. These indices are used during the first step of price conversion in which domestic and foreign prices are weighted to produce price deflators associated with total commodity supply.

Once the price level associated with delivered commodities, whether produced domestically or imported, is on hand, various indirect taxes are levied. These include the manufacturers' sales tax on consumer goods, machinery and equipment, and construction materials. This new set of prices is then passed through the final demand Bridge matrix (which contains information on the commodity composition of final demand). At this point a new set of prices emerges. This new set of prices can be interpreted as pseudo final

demand prices net of provincial sales, gasoline, alcohol, and cigarette taxes. The provincial sales taxes, both value and volume (gasoline, alcohol and cigarettes), are then levied and a set of pseudo final demand prices emerge which then are used in regression analysis with observed National Accounts final demand prices.

In summary, let us review the procedure. Industry Real Domestic Product prices, sensitive to domestic cost, are weighted with import prices, which are influenced by the exchange rate, to obtain a set of commodity prices which reflect the price of supplying goods whether produced domestically or imported. The weights used in this exercise depend upon (1) the import content vector, (2) the Use matrix, and (3) the Make matrix. It is at this step that the direct and indirect effect of the commodity composition of domestic supply is introduced into the calculation. The prices available from this calculation are then adjusted for manufacturers' sales taxes and noncommodity taxes. This new set of prices (in a commodity framework) is then passed through the final demand Bridge matrix to produce a preprovincial sales tax pseudo final demand price. The final demand Bridge Matrix does nothing but translate a set of prices which are in a commodity accounting framework to a set of prices which are in a final demand expenditure framework. The provincial sales taxes are then levied with due respect as to whether they are volume taxes or value taxes. From this we obtain a set of pseudo final demand prices.

These pseudo final demand prices are then used to derive the actual final demand prices associated with consumption, investment, inventories, and government spending by way of regression techniques. Once all prices and quantities are determined at the final demand level, nominal values are obtained through appropriate identities (the current dollar value of the components of consumption, investment, government spending, imports and exports is derived as price times quantity identities). Given these nominal values, such major aggregates as total consumption, total investment and GNE are obtained.

VARIABLES EXOGENOUS TO PRICE CONVERSION BLOCK

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PXMFDR311.18
PXMFDR321+26.9
PXMFDR323.24
                            PTM.CA.MTRVPRTW
PTM.CA.NOFRW
PTM.CA.NONCW
                                                                                                                                                                                               PXAGFT1.21+41.7
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    PXMICL61
PXMICP64+96.9
PXMIMM51.9
PXMINM71.87
PXRENTOOD
PXSUB
              PIM.CA. MIRVEHW
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        PXTRAD602.99
PXTRSP501.27
PXUTL572.79
TMAGRESW
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PXMFND101.09
PXMFND151.53
PXMFND162.65
PXMFND172.79
PXMFND181.89
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PXGFAFD902
PXGPAFD909
PXGPAL931
PXGPAP931
PXGPSED
PXTBTCD
PXTBTCD
PXTBTCD
PXTBTCD
PXTBTCD
PXTBTCD
PXTBTCD
                                                                                                                                                                                                              PXCNST404.21
PXCOMM543.48
PXFIRE701.37
                                                                       PTM.CA.OCRMTW
                                                                                       PTM, CA, OSERVW
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PXMFND372.79
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                                                                                                      PTM.CA.PETOW
                                                                                                                      PTM.CA.RETRW
                                                                                                                                    PTM.CA.TALKW
                                                                                                                                                  PTM.CA.TEXMW
                                                                                                                                                                   PTM.CA.TRVLW
                                                                                                                                                                                 PIM.CA.WOPRW
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             PXSVHGED806
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              RT PRICE - WOTOR VEHICLES - WORLD

RT PRICE - WTR VEHICLES PARTS - WORLD

RT PRICE - WORDERROUS METALS - WORLD

RT PRICE - OTHER CR. METRIALS - WORLD

RT PRICE - OTHER R. CH. METRIALS - WORLD

RT PRICE - CRUDE PERFOLEUM - WORLD

RT PRICE - CRUDE PERFOLEUM - WORLD

RT PRICE - COMMUNICATIONS EQUIP - WORLD

RT PRICE - TRAVEL PAYMENTS - WORLD

ON DEFLATOR, COMMUNICATION INDST

ON DEFLATOR, COMMUNICATION INDST

ON DEFLATOR, COMMUNICATION INDST
MISC PERSONAL & HOUSEHOLD EQUIP - WORLD
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            SECTOR DEFLATOR, COLLEGE & UNIV EDUCATION
SECTOR DEFLATOR, OTHER NOWCOMMERCIAL SERVICE INDST
SECTOR DEFLATOR, WHOLESALE & RETALL TRADE INDST
SECTOR DEFLATOR, TRANSPORTATION INDST
SECTOR DEFLATOR, UTILITY INDST
IMPORTS RESIDUAL AGRICULTURAL PROD - WORLD
IMPORTS ALCOHOLIC BEVERAGES - WORLD
                                                                                                                                                                                                                                                                                                                                                                                                                                                            METAL FABRICATING INDST
MACH (EX ELEC MACH) INDST
NON AUTO TRANSPORT EQUIP INDST
NOTOR VEH INDST (EX PARTS & ACC)
MOTOR VEH PARTS & ACC INDST
ELECTRICAL PROD INDST
NOW METALLIC MINERAL PROD INDST
FOOD & BEVERAGE INDST
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RUBBER & PLASTICS PROD INDST
LEATHER PROD INDST
TEXTILE INDST
RNITTING MILLS & CLOTHING INDST
PAPER & ALLIED INDST
            E MOTOR VEHICLES — WORLD
E MOROR VEHICLE PARTS — WORLD
E NONEBROUS WETALS — WORLD
E OTHER CRATEFALS — WORLD
E OTHER SERVICE PAYMENTS — WORLD
E OTHER SERVICE PAYMENTS — WORLD
E RESIDAL TRANSPORT EQUIP — WORLD
E CROUDE PETROLEMM — WORLD
E COMMUNICATIONS EQUIP — WORLD
E COMMUNICATIONS EQUIP — WORLD
E COMMUNICATIONS EQUIP — WORLD
E TEXTILES & MATERIALS — WORLD
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          PRINTING, PUBLISH & ALLIED INDST
PETROLEUM & COAL PROD INDST
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    NON METAL MINING (EX COAL) INDST
                                                                                                                                                                                                                                                                                       PUB ADMIN, FEDERAL DEFENCE
PUB ADMIN, FEDERAL NONDEFENCE
PUB ADMIN, LOCAL GOVT
PUB ADMIN, PROV GOVT
                                                                                                                                                                                                                                            FIN INS & REAL ESTATE INDST
FORESTRY INDST
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MISC MANUFACTURING INDST
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SECTOR DEFLATOR, C
SECTOR DEFLATOR, O
SECTOR DEFLATOR, W
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DEFLATOR,
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TMAPHTW

TMTALKW

IMPORTS APPAREL & HOUSEHOLD GOODS - WORLD
IMPORTS BUSINESS MACHINERY - WORLD
IMPORTS DAIRY MEAT FISH PROD - WORLD
IMPORTS INDUSTRIAL MACHINERY - WORLD
IMPORTS INDUSTRIAL MACHINERY - WORLD
IMPORTS AGRICULTURAL MACH - WORLD
IMPORTS MISC EQUIP & TOOL - WORLD
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SECONDARY EDUCATION

FOREIGN PRICE ASSIGNMENTS

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(PTM.CA.INMAW * TMINMAW + PTM.CA.MAFAW * TMMAFAW + PTM.CA.BZMAW * TMBZMAW)
                                                                                        (PTM.CA.ALBVW * TMALBVW + PTM.CA.DAMEW * TMDAMEW + PTM.CA.FUVEW * TMFUVEW)
(PTM.CA.AGRESW * TMAGRESW + PTM.CA.FUVEW * TMFUVEW) / (TMAGRESW + TMFUVEW)
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THE FINAL DEMAND BRIDGE MATRIX EI (48,150)

BDIMUR (48,48)

UR(48,48) DA (48,48) B(48,48)

TO DETERMINE PQ(COMMODITY PRICES) DOMESTIC MATRIX WEIGHTING USED

IMPORT MATRIX WEIGHTING USED TO DETERMINE PQ(COMMODITY PRICES)

THE MAKE MATRIX

THE USE MATRIX

- SUM(I=1,48),B(I,J), J=1,48) ON MAIN DIAGONAL (VALUE ADDED SHARE)

ON MAIN DIAGONAL (IMPORT CONTENT)

IMPORT BY COMMODITY, 1971

DIAGONAL MATRIX WITH (M(I) / ((Q(I) + M(I) - X(I)), I=1...48)

7

DIAGONAL MATRIX WITH

BSTAR (48,48)

U(48,48)

GROSS OUTPUT, 1971 COMMODITY

> 0(48) X(48)

M(48)

EXPORTS BY COMMODITY 1971

INDUSTRY PRICES PG(48) (DOMESTICALLY PRODUCED) PRICES COMMODITY

PQD (48)

PF (89) PY (48) PM (48)

PQ(48)

COMMODITY PRICES

FINAL DEMAND PRICES (PSEUDO)

VALUE ADDED PRICES BY INDUSTRY (ASSIGNED)

BY COMMODITY (ASSIGNED) IMPORT PRICES

PQ = PQ * B + PY * BSTAR PQD = PG * DA PQ = PM * U + PQD * (I - U)PQ(I), I=1...48 DERIVED AS FOLLOWS

ΡY PM AND SUM OF A WEIGHTED DERIVE PQ AS WE. (3) AND (2) (1) USING - U)) (INVERSE) L 44 DA 40 8 ŧ Ľ 6 ī I) * BSTAR * DA U))(INVERSE) + PY DA 44 B ī L 4t D 4¢ Wd H

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PQ(I)	II	SUM(J=1,48) PY(J) * BDIMUR (J,I) + SUM(J=1,48) PM(J) * UR(J,I),	I = 148
PQ(I)	н	PQ(I)	I = 16
PQ(I)	11	PQ(I) * (1 + GTF.R.MSC) / (1 + GTF.R.MSC(1971)),	1 = 719
PQ(20)	11	PQ(20) * (1 + GTF.R.MSIM)	
PQ(I)	11	PQ(I) * (1 + GTE.R.MSC) / (1 + GTE.R.MSC(1971)),	I = 21,23
PQ(24)	11	PQ(24) * (1 + GTF.R.MSIM)	
PQ(I)	11	PQ(I) * (1 + GTE.R.MSC) / (1 + GTE.R.MSC(1971)),	I = 25,27
PQ(28)	и	PQ(28) * (1 + GTF.R.MSIM)	
PQ(I)	н	PQ(I)	I = 29,48
SE(K)	Ш	SUM(J=1,45) EI(J,K),	K = 189
PF(K)	н	SUM(J=1,45) (PQ(J) * EI(J,K) / SE(K)),	K = 189

THE ALVAND DEFINED FALLS ALL IND ADDILLION OF FROVINCIAL SALES TAX	= PF(1) * ((1 + GTRP.ITS.CNFIØ) / (1 + GTRP.ITS.CNFIØ(1971)))	= (PF(2) * (1 - EI(46,2)) + EI(46,2) * ((((358/808.2) * (1 + GTP.R.MSC)) * GTF.R.DALC) / ((1 + GTP.R.MSC(1971)) * GTP.R.DALC(1971)) + ((450.2/808.2) * GTP.I.LIOP / GTP.I.LIOP / GTP.I.LIOP / (3 + GTRP.ITS.CNF20) / (1 + GTRP.ITS.CNF20(1971))) * ((1 + GTRP.ITS.CNF20) /	= (PF(3) * (1 - EI(46,3)) + EI(46,3) * (((1 + GTP.R.MSC) * GTF.R.DCIG + GTF.R.TCIG) / ((1 + GTF.R.MSC(1971)) * GTF.R.DCIG(1971) + GTF.R.TCIG(1971))) * (1 + GTRP.ITS.CNF38) / (1 + GTRP.ITS.CNF38) / (1 + GTRP.ITS.CNF38(1971)))	= PF(4) * ((1 + GTRP.ITS.CHC10) / (1 + GTRP.ITS.CHC10(1971)))	= PF(5) * ((1 + GTRP.LTS.CHC20) / (1 + GTRP.LTS.CHC20(1971)))	= PF(6) * ((1 + GTRP.LTS.CHC30) / (1 + GTRP.LTS.CHC30(1971)))	= PP(7)	n PF(8)	= PF(9) * ((1 + GTRP.ITS.CSR30) / (1 + GTRP.ITS.CSR30(1971)))	= PF(10) * ((1 + GTRP.ITS.CNR40) / (1 + GTRP.ITS.CNR40(1971)))	= PF(11) * ((1 + GTRP.ITS.CNR50) / (1 + GTRP.ITS.CNR50(1971)))	= PF(12) * ((1 + GTRP.ITS.CNR60) / (1 + GTRP.ITS.CNR60(1971)))	= PF(13) * ((1 + GTRP.ITS.CDH10) / (1 + GTRP.ITS.CDH10(1971)))	= PF(14) * ((1 + GTRP.ITS.CDH20) / (1 + GTRP.ITS.CDH20(1971)))	= PF(15) * ((1 + GTRP.ITS.CHH30) / (1 + GTRP.ITS.CHH30(1971)))	= PP(16) * ((1 + GTRP.ITS.CNH40) / (1 + GTRP.ITS.CNH40(1971)))	= PF(17) * ((1 + GTRP.ITS.CSH50) / (1 + GTRP.ITS.CSH50(1971)))	m PF(K) K = 18,22	= PF(23) * ((1 + GTRP.ITS.CNM40) / (1 + GTRP.ITS.CNM40(1971)))	= PF(24) * ((1 + GTRP.ITS.CDT10) / (1 + GTRP.ITS.CDT10(1971)))	= PF(25) * ((1 + GTRP.ITS.CDT20) / (1 + GTRP.ITS.CDT20(1971)))	= (PF(26) * (1 - EI(46,26)) + EI(46,26) * (GTP.R.D+GAS / GTP.R.D+GAS(1971))) * ((1 + GTRP.ITS.CNT38) / (1 + GTRP.ITS.CNT38(1971)))	= PR(27) * ((1 + GTRP.ITS.CST40) / (1 + GTRP.ITS.CST40(1971)))	n PP (28)	= PP(29) * ((1 + GTRP.ITS.CST60) / (1 + GTRP.ITS.CST60(1971)))	= PF(38) * ((1 + GTRP.ITS.CDE18) / (1 + GTRP.ITS.CDE10(1971)))	= PF(31) * ((1 + GTRP, ITS, CHE20) / (1 + GTRP, TTS, CHE20 (1971)))
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COMPONENT	PF(1)	PF(2)	PF(3)	PF(4)	PF(5)	PF(6)	PF(7)	PF(8)	PF(9)	PF(10)	PF(11)	PF(12)	PF(13)	PF(14)	PF(15)	PF(16)	PF(17)	PF(K)	PF(23)	PF(24)	PF(25)	PF (26)	PF(27)	PF(28)	PF(29)	PF (30)	PF (31)

COMPUTING PSEUDO FINAL DEMAND PRICE WITH THE ADDITION OF PROVINCIAL SALES TAX

32)	II	PF(32)	PF(32) * ((1 + GTRP.ITS.CSE30) / (1 + GTRP.ITS.CSE30(1971)))
	B	PF (33)	
	II	PF(34)	PF(34) * ((1 + GTRP.ITS.CHP10) / (1 + GTRP.ITS.CHP10(1971)))
	11	PF (35)	PF(35) * ((1 + GTRP.ITS.CNP20) / (1 + GTRP.ITS.CNP20(1971)))
	11	PF (36)	
	11	PF(37)	PF(37) * ((1 + GTRP.ITS.CSP40) / (1 + GTRP.ITS.CSP40(1971)))
	II	PF(K)	PF(K) K=38,72
	11	PF (73)	PF(73) * ((1 + GTF.R.MSIR) / (1 + GTF.R.MSIR(1971)))
	11	PF(74)	
	II	PF (75)	PF(75) * ((1 + GTF.R.MSIR) / (1 + GTF.R.MSIR(1971)))
	11	PF(K)	PF(K) K = 76,89

PF58 = PF(59)
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FINAL DEMAND DEFLATORS - CONSUMPTION

In the overview of final demand price conversion, we indicated that a set of pseudo final demand prices is the end product of the price conversion process. These pseudo final demand prices are used as right hand side variables to explain the final demand deflators associated with the quantities on the demand side of Candide Model 2.0. For consumption there are specific final demand deflators associated with each item at the disaggregated level. Most of the final demand deflators for consumption are directly related to a pseudo price generated from price conversion. However, there are a few final demand deflators where weighted averages of pseudo deflators are used as right hand side explanatory variables. The deflator associated with consumer plus government expenditures on hospitals is such a case. Here a weighted average of three pseudo prices (namely the pseudo prices of private hospital expenditure, of government hospital value added and of government hospital other goods and services) is used in order to conform definitionally to the concept consumer plus government expenditures on hospitals.

There are some specific cases where <u>information on</u> industry prices is introduced directly into the equations which explain consumption final demand prices. This is done in order to increase the <u>pass through from domestic</u> industry prices to final demand prices. For some cases the implied pass through from the rigid price conversion process is inadequate.

Located in this block are the price times quantity identities which permit the computation of nominal values for consumer expenditures. Using the appropriate National Accounts identities, we also obtain estimates of the nominal value tor total consumption and the associated deflators.

There are two other important deflators determined in this block. These include the price index for home ownership and the consumer price index. The price index for home ownership depends upon construction cost, the noncommodity indirect business tax proxy (property taxes) and an average of the conventional and NHA mortgage interest rates.

The consumer price index is a weighted average of the final demand deflators associated with detailed consumption items and of the home ownership price index. The weights used in this calculation are the 1957 bench marks. It may be instructive to review the way in which movements in foreign prices, changes in sales tax rates or movements in domestic costs influence the CPI. These factors all influence the CPI calculation in the price conversion process. Changes in domestic costs, changes in foreign prices, or changes in indirect tax rates influence the pseudo final demand prices which are used as right hand side variables to explain the National Accounts concepts. For example, changes in property tax rates which increase collections at the municipal and local level will influence

the denominator of the noncommodity indirect tax index. This is introduced into the calculation of pseudo final demand prices during price conversion and will influence the CPI via the detailed consumption deflators. The noncommodity indirect tax index is also a right hand side variable of the home ownership price index. The latter is an important component of the CPI.

The equation for the CPI is only a weighted average of the detailed prices which influence its movement. If one is dissatisfied with the performance of the CPI in simulation it would be inappropriate to adjust the equation directly. One must look further into the system to see where an adjustment should be made. This is important since the CPI is the denominator of the real wage variable used in the participation rate equations (demographic block) and in the labour demand equations (employment block). Furthermore, a variant of the consumption deflator is used to deflate personal disposable income in the consumption-savings block. Any arbitrary movement in the CPI which is not structurally implemented will imply an inconsistency between sector prices, the consumption deflator, the CPI and real disposable income.

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CONSUMER	EXPENDITURE -	- NEW PASSENGER CARS	CDT11
CONSUMER	EXPENDITURE -	- USED (NET) AUTOMOBILES	CDT12
CONSUMER	EXPENDITURE -	R & PARTS	CDT20
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CONSUMER	EXPENDITURE -	BOYS' CLOTHING	CHC10
CONSUMER	EXPENDITURE -	- WOMEN'S GIRLS & INFANTS WEAR	CHC20
CONSUMER	EXPENDITURE -	- FOOTWEAR & REPAIR	CHC30
CONSUMER	EXPENDITURE -	- BOOKS NEWSPAPERS & MAGAZINES	CHEZØ
CONSUMER	EXPENDITURE -	- SEMI-DUR HHOLD FURNISHINGS	CHH30
CONSUMER	EXPENDITURE -	REPAIRS	CHPIØ
CONSUMER	EXPENDITURE -	CO	CN
CONSUMER	EXPENDITURE -	- FOOD & NON-ALCOHOLIC BEVERAGES	
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CONSUMER	EXPENDITURE -		CNF30
CONSUMER	EXPENDITURE -	- NON-DURABLES HHOLD SUPPLIES	CNH40
CONSUMER	EXPENDITURE -	10	CNM40
CONSUMER	EXPENDITURE -	- TOILET ARTICLES & COSMETICS	CNP20
CONSUMER	EXPENDITURE -	- ELECTRICITY	CNR40
CONSUMER	EXPENDITURE -	GAS	CNR50
CONSUMER	EXPENDITURE -	- OTHER FUELS	CNR6Ø
CONSUMER	EXPENDITURE -	- GASOLINE OIL AND GREASE	CNT30
CONSUMER	EXPENDITURE -	- TOTAL SERVICES AS PER N.A.	CS
CONSUMER	EXPENDITURE -	- TRAVEL EXPENDITURE SERVICES	CSAll
CONSUMER	EXPENDITURE -	- MILITARY PAY & ALLOWANCES ABROAD	CSA12
CONSUMER	EXPENDITURE -	- GIFTS IN KIND (NET)	CSA13
CONSUMER	EXPENDITURE -	- TRAVEL EXPENDITURE RECEIPTS	CSA14
CONSUMER	EXPENDITURE -	- RECREATIONAL SERVICES	CSE30
CONSUMER	EXPENDITURE -	NC	CSE40
CONSUMER	EXPENDITURE -	- LAUNDRY & DRY CLEANING	CSH50
CONSUMER	EXPENDITURE .	- DOMESTIC SERVICES	CSH60
CONSUMER	EXPENDITURE .	- OTHER HHOLD SERVICES	CSH70
CONSUMER	EXPENDITURE .	CARE	CSMID
CONSUMER	EXPENDITURE .	\sim	CSM11
CONSUMER	EXPENDITURE -		CSM12
CONSUMER	EXPENDITURE .	Q,	CSM13
CONSUMER	PLUS GOVERNMI	TURE	CSM19
CONSUMER		CARE AND THE LIKE	
CONSUMER			CSM20.IO
CONSUMER	PLUS GOVERNMI	- HOSPITALS	CSM29
CONSUMER		- OTHER MEDICAL CARE EXPENSES	CSM30
CONSUMER	EXPENDITURE		CSP 30
CONSUMER	EXPENDITURE .	- EXPENDITURE ON RESTAURANTS & HOFFLS	CSP 40

пппппппп

PFDUM6170 PFDUM5770 PFDUM7174 PFDUM6670 PFDUM730N PFCSA13 TIME VARIABLES EXOGENOUS TO THE CONSUMPTION PRICE BLOCK BLOCK BLOCK BLOCK BLOCK (NET) DUMMY VARIABLE - FINAL DEMAND PRICE
DEFLATOR CONS EXPND - GIFTS IN KIND

DUMMY VARIABLE - FINAL DEMAND PRICE

PFGEP. CGS. MED PXMICP64+96.9 GEH. CGS. CCA\$ PXMFDR331,39 PXMFND365.69 PXMFND391.99 PXTRAD602.99 PXTRSP501.27 PXUTIL572.79 GEH. CGS.GS\$ GEP. CGS. MED GEH. IO.OTH GEH. IO. VA PXDUMMY74 ZUSPDCENC ZUSPDCENF ZUSPDCESH ZUSPDCESO PFRCINAB PXIBTNCD GFRCPI CGFRREX PXSVCM ZUKCPI ZUKREX PERS CONSUMP EXPND, NONDUR, CLOTH & SHOES EXCHANGE RATE - CDN \$ PER BRITISH POUND AVERAGE OF COVENTIONE COMMONICATIONS

AVERAGE OF COVENTIONE COMMONICATION

HOSP GOVT EXPND — GDS & SRVS, NET OF DEPRECIATION

HOSP GOVT EXPND — GDS & SRVS, NET OF DEPRECIATION

HOSP GOVT EXPND — GDS & SRVS, NET OF DEPRECIATION

HOSP GOVT EXPND — GDS & SRVS, NEDICARE

DEFLATOR EXPND — GDS & SRVS, MEDICARE

DEFLATOR RESIDENTIAL CONST INVST — BUS, TOTAL N.A.

DUMMY VARIABLE — SECTOR DEFLATOR, RDP BLOCK

SECTOR DEFLATOR, ELECTRICAL PROD INDST

SECTOR DEFLATOR, PET & COAL PROD INDST

SECTOR DEFLATOR, COMMERCIAL SERVICES INDST

SECTOR DEFLATOR, COMMERCIAL SERVICES INDST

SECTOR DEFLATOR, COMMERCIAL SERVICES INDST

SECTOR DEFLATOR, UNDERCATOR OF SERVICES INDST

SECTOR DEFLATOR, UNDERCATAL SERVICES INDST

SECTOR DEFLATOR, UNDERCATAL SERVICES INDST

SECTOR DEFLATOR, UNDERCATALION INDST

SECTOR DEFLATOR, UTILITY INDST

SECTOR DEFLATOR, UTILITY INDST SERVICES, HOUSING SERVICES, OTHER SERVICES, TOTAL CRD PET NATL GAS & SRVS, INCID TO MIN U.S. - IMPL DEFL, PERS CONSUMP EXPND, NONDUR, CLOTH U.S. - IMPL DEFL, PERS CONSUMP EXPND, NONDUR, FOOD U.S. - IMPL DEFL, PERS CONSUMP EXPND, SERVICES, HOU U.S. - IMPL DEFL, PERS CONSUMP EXPND, SERVICES, OTH U.S. - IMPL DEFL, PERS CONSUMP EXPND, SERVICES, OTH U.S. - IMPL DEFL, PERS CONSUMP EXPND, SERVICES, TOTH GERMANY - EXCHANGE RATE - CDN DOLLARS PER MARK

UNITED KINGDOM - CONSUMER PRICE INDEX

KINGDOM -

UNITED

USPDCEST

CSP50 CSR10 FINANCIAL LEGAL AND OTHER SERVICES EXPENDITURE - FINANCIAL LEGAL AND OTHER S EXPENDITURE - OP.EXP OF NON-PROFIT ORGAN. CONSUMER EXPENDITURE - GROSS IMPUTED RENT CSR30

CONSUMER EXPENDITURE - OTHER LODGING CONSUMER EXPENDITURE - OTHER AUTO RELATED SERVICES

CONSUMER EXPENDITURE - GROSS RENT PAID

CONSUMER

CONSUMER EXPENDITURE - PURCHASED TRANSPORTATION

CONSUMER EXPENDITURE - COMMUNICATIONS

CSR20 CST40 CSTS0 CST60 FRMC

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OCTOBER, 1979
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      (PF21 * CSM20.10 + PF78 * GEH.10.VA + PF79
* GEH.10.0TH) / (CSM20.10 + GEH.10.VA + GEH.10.0TH)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           SECTION 19, PAGE 6
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ZUSPDCENF(1971))
/ ZUSPDCESH(1971))
/ ZUSPDCEST(1971))
/ ZUSPDCEST(1971))
/ ZUSPDCESO(1971))
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* ZUSPDCESH / 
* ZUSPDCENC / 
* ZUSPDCEST / 
* ZUSPDCESO /
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WE EXPND - PERSONAL CARE
SEXPND - EXPND ON RESTAURANTS & HOTELS
WE EXPND - OP. EXP OF NONPROFIT ORGAN
WE EXPND - OP. EXP OF NONPROFIT ORGAN
WE EXPND - GROSS RENT PAID
WE EXPND - OTHER LOGING
WE EXPND - OTHER AUTO RELATED SERVICES
WE EXPND - NEW PASSENGER CARS
                                                                        - NEW & USED NET AUTO
- REPAIR & PARTS
- MEN'S & BOX'S CLOTHING
- WOMEN'S GIRLS' & INFANTS' WEAR
                                                                                                                                                                                                     BOOKS NEWSPAPERS & MAGAZINES
SEMI-DURABLE HHOLD FURNISHINGS
                                                                                                                                                                                                                                                      JEWELLERY WATCHES & REPAIRS FOOD & NONALCOHOLIC BEVERAGES
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                                                                                                                                                                                                                                                                                                                            D - TOBACCO
D - NONDURABLES HHOLD SUPPLIES
D - DRUGS & SUNDRIES
D - TOILET ARTICLES & COSMETICS
D - ELECTRICITY
D - GAS
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LAUNDRY & DRY CLEANING
  RECREATION SPORT & CAMP
FURNITURE & CARPETS
HOUSEHOLD APPLIANCES
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FOR FINAL DEMAND CAT PFCSM29
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CANDIDE MODEL 2.0

B	PCDE10 PCDE10 PCDE10 PCDH10 PCDH10 PCDH10 PCDH20 PCDH20 PCHC120 PCHC12
PFCSA11 ZGFRUKPFCSA12 PFCSA12 PFCSA14E	PFCSA14 PFCSM12 PFCSM13 CDE185 CDF185 CDF185 CDT185 CDT285 CDT285 CHC285 CHC385
DEFLATOR CONS EXPND - TRAVEL EXPND SRVS DEFLATOR CONS EXPND - WTD AVERAGE MILITARY PAY ALLOW ABRD DEFLATOR CONS EXPND - MILITARY PAY & ALLOW ABRD PSEUDO PRICE FOR FINAL DEMAND CAT PFCSA14	DEFLATOR CONS EXPND - TRAVEL EXPND RECEIPTS DEFLATOR CONS EXPND - DENTIST (GROSS FEES) DEFLATOR CONS EXPND - DENTIST (GROSS FEES) DEFLATOR CONS EXPND - DENTIST (GROSS FEES) DEFLATOR CONS EXPND - REAL

= GEH. CGS.CCA\$ + GEH. CGS.GS\$	= CDT10\$ - CDT11\$	= CDT12\$ / CDT12	= CDE1#\$ + CDH1#\$ + CDH2#\$ + CDT1#\$ + CDT2#\$	= CD\$ / CD	= CHC10\$ + CHC20\$ + CHC30\$ + CHE20\$ + CHH30\$ + CHP10\$	= CH\$ / CH	= CNF10\$ + CNF20\$ + CNF30\$ + CNH40\$ + CNM40\$ + CNP20\$	+ CNR40\$ + CNR50\$ + CNT30\$	= CNO / CN	= CSA11\$ + CSA12\$ + CSA14\$	= CSM10\$ - CSM12\$ - CSM13\$	= CSM11\$ / CSM11	= CSM11\$ + GEP.CGS.MED\$	= CSM19\$ / CSM19	= CSM29\$ - GEH.CGS\$	= CSM20\$ / CSM20	= CSA10\$ + CSE30\$ + CSE40\$ + CSH50\$ + CSH70\$	+ CSM10\$ + CSM20\$ + CSM30\$ + CSP30\$ + CSP40\$	+ CSP50\$ + CSP60\$ + CSR10\$ + CSR20\$	+ CSR30\$ + CST40\$ + CST50\$ + CST60\$	= CS\$ / CS	= CD\$ + CH\$ + CN\$ + CS\$	II CS / C	۵	ca .
GEH, CGS\$	CDT12\$	PFCDT12	CD\$	PFCD	CH\$	PFCH	CN\$		PFCN	CSA10\$	CSM11\$	PFCSM11	CSM19\$	PFCSM19	CSM2Ø\$	PFCSM20	CS\$				PFCS	C\$	PFC	PFHOWIX	CPI
HOSP GOVT EXPND - GDS & SRVS, TOTAL	CONSUMER EXPENDITURE - USED (NET) AUTOMOBILES	DEFLATOR CONS EXPEND - USED (NET) AUTOMOBILES	CONSUMER EXPENDITURE - TOTAL DURABLE GOODS AS PER NAT. ACC.	DEFLATOR CONS EXPEND - TOTAL DURABLE GOODS AS PER NAT. ACC.	CONSUMER EXPENDITURE - TOTAL SEMI-DURABLES AS PER NAT. ACC.	DEFLATOR CONS EXPEND - TOTAL SEMI-DURABLES AS PER NAT. ACC.	CONSUMER EXPENDITURE - TOTAL NONDURABLES AS PER NAT. ACC.		DEFLATOR CONS EXPEND - TOTAL NONDURABLES AS PER NAT. ACC.	CONSUMER EXPENDITURE - NET EXPENDITURE ABROAD	CONSUMER EXPENDITURE - DOCTORS (GROSS FEES)	DEFLATOR CONS EXPEND - DOCTORS (GROSS FEES)	CONSUMER PLUS GOVERNMENT EXPENDITURE - DOCTORS	DEFLATOR CONSUMER PLUS GOVERNMENT EXPENDITURE - DOCTORS	CONSUMER EXPENDITURE - HOSPITAL CARE AND THE LIKE	DEFLATOR CONS EXPEND - HOSPITAL CARE AND THE LIKE	CONSUMER EXPENDITURE - TOTAL SERVICES AS PER NAT. ACC.				DEFLATOR CONS EXPEND - TOTAL SERVICES AS PER NAT. ACC.	CONSUMER EXPENDITURE - TOTAL	DEFLATOR CONS EXPEND - TOTAL	PRICE INDEX - HOME OWNERSHIP	CONSUMER PRICE INDEX

Equation No .: 929

Name: Deflator, Consumer Expenditures, Recreation, Sport

and Camping Equipment

Mnemonic: PFCDE10 Period: 1961-74

((PFCDE10 / PFCDE10(-1)) - 1) * 100 - ((PF30 / PF30(-1)) -1) * 100

= + 1.04316 (((((PXMFDR331.39 * .19965)

(7.87)+ (PXMFND391.99 * .22991)

+ (PXTRAD602.99 * .17951)) / ((PXMFDR331.39(-1) * .19965)

+ (PXMFND391.99(-1) * .22991)

+ (PXTRAD602.99(-1) * .17951))) -.1)

* 100 - (((PF30 / PF30(-1)) - 1) * 100))

- 4.09441 PFDUM7174 (6.90)

 $R^2 = .875$

SEE = 1.176 D.W. = 2.371

Equation No.: 930

Name: Deflator, Consumer Expenditures, Furniture and Carpets

Mnemonic: PFCDH10

Period: 1960-74

PFCDH10 / PF13

- .00040502 (PFDUM7174 * TIME)

(2.46)

(1,4,NONE)

 $\overline{R}^2 = .874$ SEE = .0130 D.W. = 1.459

Equation No.: 931

Name: Deflator, Consumer Expenditures, Household Appliances

Mnemonic: PFCDH20 Period: 1956-74

PFCDH20 - PF14

= - 1.30046 (12.51)

- .071660 PXDUMMY74 (1.83)

+ 90.81830 1 / TIME (13.68)

 $\overline{R}^2 = .929$ SEE = .0356 D.W. = .615

Equation No.: 932

Name: Deflator, Consumer Expenditures, New and Used Automobiles

Mnemonic: PFCDT10 Period: 1958-74

PFCDT10 - PF24

= + .60579 (2.64)

+ 1.02765 (PFCDT10(-1) - PF24(-1))

(4.22)

- .52543 (PFCDT10(-2) - PF24(-2))

(2.52)

- .0088553 TIME

(2.70)

 $\overline{R}^2 = .958$ SEE = .0193 D.W. = 2.133

Equation No.: 933

Name: Deflator, Consumer Expenditures, Repair and Parts

Mnemonic: PFCDT20 Period: 1956-74

PFCDT20 - PF25

= + .69891 (PXSVCM - PF25)

(11.93)

- .052569 PFDUM7174

(4.38)

 $\overline{R}^2 = .576$ SEE = .0239 D.W. = .713

Equation No.: 934

Name: Deflator, Consumer Expenditures, Men's and Boys' Clothing

Period: 1959-74 Mnemonic: PFCHC10

PFCHC10 - PF04

= - .0067341 (1.32)

+ sum(i=1,3)b(i) (PFCHC10(-i) - PF04(-i))

b(i) t(i) i

+1.85481 1

+1.85481 (6.00) -.61629 (1.23) -.47398 (1.09) 2

3

sum +.76454 (1.85)

(2,3,NONE)

 $R^2 = .746$ SEE = .0164 D.W. = 2.195

Equation No.: 935

Name: Deflator, Consumer Expenditures, Women's, Girls' and

Infants' Wear

Mnemonic: PFCHC20 Period: 1957-74

PFCHC20 - PF05 - (PFCHC20(-1) - PF05(-1))

= - .012213 (1.23)

> + .012933 PFDUM6170 (1.10)

> - .027546 PFDUM7174 (1.96)

 $\bar{R}^2 = .367$ SEE = .0199 D.W. = 1.739

Equation No.: 936

Name: Deflator, Consumer Expenditures, Footwear and Repair

Mnemonic: PFCHC30 Period: 1956-74

PFCHC30 - PF06

= + .47348 (8.75)

- .17427 PXDUMMY74 (8.55)

- 34.53140 1 / TIME (9.99)

 $R^2 = .875$ SEE = .0186 D.W. = .607

Equation No.: 937

Name: Deflator, Consumer Expenditures, Books, Newspapers, and

Magazines

Mnemonic: PFCHE20 Period: 1958-74

PFCHE20 / PF31

= + .098931 (0.85)

+ 1.24148 (PFCHE20(-1) / PF31(-1))

(3.67)

- .70804 (PFCHE20(-2) / PF31(-2))

(2.06)

+ .0044933 TIME

(1.23)

 $\overline{R}^2 = .830$ SEE = .0337 D.W. = 1.625

Equation No.: 938

Name: Deflator, Consumer Expenditures, Semi-Durables

Household Furnishings

Mnemonic: PFCHH30

Period: 1958-74

PFCHH30 / PF15

= + .32882

(2.28)

+ 1.07423 (PFCHH30(-1) / PF15(-1))

(3.75)

- .56151

(PFCHH30(-2) / PF15(-2))

(1.97)

+ .0019702 TIME (1.31)

 $R^2 = .763$

SEE = .0156 D.W. = 1.891

Equation No.: 939

Name: Deflator, Consumer Expenditures, Jewellery, Watches

and Repair

Mnemonic: PFCHP10 Period: 1957-74

PFCHP10 - PF34

= - .20892 (1.93)

+ .54473 (PFCHP10(-1) - PF34(-1))

(2.57)

+ .0028956 TIME

(1.92)

 $\overline{R}^2 = .724$ SEE = .0207 D.W. = 1.770

Equation No.: 940

Name: Deflator, Consumer Expenditures, Food and Nonalcoholic

Beverages

Mnemonic: PFCNF10 Period: 1959-74

PFCNF10 / PF01

= + .58139 (2.36)

- .028223 PFDUM6170

(2.54)

+ .033697

PFDUM6670

(4.17)

(2.66)

- .036218 PFDUM7174

+ sum(i=1,3)b(i) (PFCNF10(-i) / PF01(-i))

i b(i) t(i)

1

-.18376 (0.80) +.14531 (1.75) +.47439 (2.11)

3

sum +.43593 (1.75)

(1,3,NONE)

 $\bar{R}^2 = .730$

2

SEE = .0089262 D.W. = 1.756

Equation No.: 941

Name: Deflator, Consumer Expenditures, Alcoholic Beverages

Mnemonic: PFCNF20 Period: 1956-74

PFCNF20 - PF02

= - .37502 (6.83)

+ 25.9846 1 / TIME (7.47)

- .12665 PFDUM73ON (8.48)

 $R^2 = .932$ SEE = .0174

174 D.W. = 2.114

Equation No.: 942

Name: Deflator, Consumer Expenditures, Tobacco

Mnemonic: PFCNF30 Period: 1957-74

((PFCNF30 / PFCNF30(-1)) - 1) * 100 - ((PF03 / PF03(-1)) - 1) * 100

= + .018735 (PFDUM6670 * TIME)

(2.97)

- .018279 (PFDUM7174 * TIME) (2.76)

 $\overline{R}^2 = .480$ SEE = .960 D.W. = 1.171

Equation No.: 943

Name: Deflator, Consumer Expenditures, Non-Durables Household

Supplies

Mnemonic: PFCNH40 Period: 1957-74

((PFCNH40 / PFCNH40(-1)) - 1) * 100

= + .95362 (((PF16 / PF16(-1)) -1) * 100) (5.49)

- .41418 ((((PF16 / PF16(-1)) -1) * 100) * PFDUM7174) (2.30)

 $\overline{R}^2 = .801$ SEE = 1.299 D.W. = 1.985

Equation No.: 944

Name: Deflator, Consumer Expenditures, Drugs and Sundries

Period: 1958-74 Mnemonic: PFCNM40

PFCNM40 - PF23

= + .69410 (1.66)

> + 1.25783 (PFCNM40(-1) - PF23(-1))

(3.21)

- .62082 (PFCNM40(-2) - PF23(-2))

(1.68)

- .010175 TIME

(1.74)

 $R^2 = .921$ SEE = .0354 D.W. = 1.312

Equation No.: 945

Name: Deflator, Consumer Expenditures, Toilet Articles and Cosmetics

Period: 1956-74 Mnemonic: PFCNP20

PFCNP20 - PF35

= - 6.67152 (PFDUM5770 / TIME) (7.27)

- 12.35530 (PFDUM73ON / TIME) (4.37)

 $R^2 = .201$ SEE = 0.0544 D.W. = 1.101

Equation No.: 946

Name: Deflator, Consumer Expenditures, Electricity

Mnemonic: PFCNR40

Period: 1957-74

PFCNR40 / PF10

(PFCNR40(-1) / PF10(-1))

(1.42)

$$\bar{R}^2 = .696$$

SEE = .0294 D.W. = 1.382

Equation No.: 947

Name: Deflator, Consumer Expenditures, Gas

Mnemonic: PFCNR50 Period: 1957-74

((PFCNR50 / PFCNR50(-1)) - 1) * 100 - ((PF11 / PF11(-1)) - 1) * 100

= + 12.57380 (1.30)

/ PF11(-1)) - 1) * 100) - .20779 TIME

- .20779 TIME (1.39)

 $R^2 = .846$ SEE = 2.953

D.W. = 1.347

Equation No.: 948

Name: Deflator, Consumer Expenditures, Other Fuels

Mnemonic: PFCNR60 Period: 1960-74

PFCNR60 - (((PXMFND365.69 * .62539) + (PXTRAD602.99 * .28046)) / (.62539 + .28046))

= + 47.43740 ((PF12 - (((PXMFND365.69 * .62539) (8.10) + (PXTRAD602.99 * .28046)) / (.62539 + .28046))) / TIME)

+ .041173 PFDUM7174 (2.35)

- .24358 PXDUMMY74 (5.25)

 $R^2 = .872$ SEE = .0291 D.W. = 1.094

Equation No.: 949

Name: Deflator, Consumer Expenditures, Gasoline, Oil, and Grease

Mnemonic: PFCNT30 Period: 1957-74

PFCNT30 / PF26

= - 2.04106 (1.22)

+ .97853 (PFCNT30(-1) / PF26(-1)) (2.51)

+ .064496 TIME (1.52)

- .00050275 TIME * TIME (1.57)

 $R^2 = .408$ SEE = .0262 D.W. = 1.829

Equation No .: 950

Name: Deflator, Consumer Expenditures, Recreational Services

Mnemonic: PFCSE30 Period: 1958-74

PFCSE30 - PF32

= - .013499 (1.74)

+ 1.26265 (PFCSE30(-1) - PF32(-1))

(3.85)

- .60340 (PFCSE30(-2) - PF32(-2))

(1.97)

 $R^2 = .547$ SEE = .0204 D.W. = 1.658

Name: Deflator, Consumer Expenditures, Educational and

Cultural Services

Mnemonic: PFCSE40 Period: 1957-74

PFCSE40 - PF33

= -.0020807 (0.38)

+ .28960

(PFCSE40(-1) - PF33(-1))

(1.14)

- .028158 PFDUM6170

(2.24)

+ .019424 PFDUM6670

(1.91)

 $\bar{R}^2 = .503$

SEE = .0155

D.W. = 2.037

Equation No.: 952

Name: Deflator, Consumer Expenditures, Laundry and

Dry Cleaning

Mnemonic: PFCSH50 Period: 1958-74

PFCSH50 - PF17

= + .051789(2.65)

> + 1.06176 (PFCSH50(-1) - PF17(-1))(3.76)

> - .79672 (PFCSH50(-2) - PF17(-2))(1.90)

- .012410 PFDUM6170

(1.44)

- .012933 PFDUM6670

(1.97)

- .061762 PFDUM7174

(3.21)

 $R^2 = .931$ SEE = .00987 D.W. = 2.471

Equation No.: 953

Name: Deflator, Consumer Expenditures, Domestic Services

Period: 1957-74 Mnemonic: PFCSH60

PFCSH60 - PF18

= + .15172(3.12)

> + .80438 (PFCSH60(-1) - PF18(-1))

(5.64)

- .0022835 TIME

(3.25)

 $R^2 = .841$ SEE = .0128 D.W. = 2.124

Equation No.: 954

Name: Deflator, Consumer Expenditures, Other Household Services

Mnemonic: PFCSH70 Period: 1957-74

PFCSH70 - PF19

= - .20062 (1.64)

+ .83925 (PFCSH70(-1) - PF19(-1))

(5.00)

+ .0030517 TIME

(1.78)

 $\overline{R}^2 = .911$ SEE = .0188 D.W. = 2.251

Equation No.: 955

Name: Deflator, Consumer Expenditures, Medical Care

Mnemonic: PFCSM10 Period: 1958-74

PFCSM10 / PF20

= + .44689 (3.10)

+ .92901 (PFCSM10(-1) / PF20(-1))
(3.58)

- .69121 (PFCSM10(-2) / PF20(-2)) (2.62)

+ .0037153 TIME (1.84)

 $\overline{R}^2 = .709$ SEE = .0196

SEE = .0196 D.W. = 1.956

Equation No: 957

Name: Deflator, Consumer Plus Government Expenditures, Hospitals

Period: 1957-74 Mnemonic: PFCSM29

(PFCSM29 - PF21.78.79) - (PFCSM29(-1) - PF21.78.79(-1))

= - .15245 (2.02)

> + .0023551 TIME (2.05)

 $\overline{R}^2 = .159$ SEE = .025 D.W. = 1.385

Name: Deflator, Consumer Expenditures, Other Medical Care

Expenses

Mnemonic: PFCSM30 Period: 1958-74

PFCSM30 - PF22

= - .39239 (2.36)

+ 1.12426 (PFCSM30(-1) - PF22(-1))

(4.24)

- .35237 (PFCSM30(-2) - PF22(-2))

(1.25)

+ .0056510 TIME

(2.45)

 $R^2 = .963$ SEE = .0209 D.W. = 2.009

Equation No.: 960

Name: Deflator, Consumer Expenditures, Personal Care

Mnemonic: PFCSP30

Period: 1957-74

PFCSP30 - PF36

= + .087623 (0.56)

+ .99068 (PFCSP30(-1) - PF36(-1))

(3.29)

- .0012899 TIME (0.59)

 $\overline{R}^2 = .807$ SEE = .0155 D.W. = 1.377

Name: Deflator, Consumer Expenditures on Restaurants and Hotels

Mnemonic: PFCSP40 Period: 1957-74

PFCSP40 / PF37

= - .044642 (0.68)

+ .90753 (PFCSP40(-1) / PF37(-1)) (7.91)

+ .0021370 TIME (2.50)

 $R^2 = .963$ SEE = .00911

D.W. = 1.499

Equation No.: 962

Name: Deflator, Consumer Expenditures, Financial, Legal, and

Other Services

Mnemonic: PFCSP50 Period: 1958-74

PFCSP50 / PF38

= - .31313 (3.33)

> + .29121 (PFCSP50(-1) / PF38(-1))

(0.91)

(PFCSP50(-2) / PF38(-2)) - .98693

(3.32)

+ .027900 TIME

(4.51)

 $\bar{R}^2 = .929$ SEE = .0257 D.W. = 1.557

Name: Deflator, Consumer Expenditures, Operational Expenditure

of Nonprofit Organizations

Mnemonic: PFCSP60 Period: 1957-74

PFCSP60 - PF39

= - .26483 (2.21)

+ .62166 (PFCSP60(-1) - PF39(-1))

(3.00)

+ .0037146 TIME

(2.33)

 $R^2 = .931$ SEE = .0121 D.W. = 1.897

Equation No.: 964

Name: Deflator, Consumer Expenditures, Gross Imputed Rent

Mnemonic: PFCSR10 Period: 1958-74

PFCSR10 - PF07

= + .30347 (1.79)

+ 1.11782 (PFCSR10(-1) - PF07(-1))

(4.07)

- .50390 (PFCSR10(-2) - PF07(-2))

(1.88)

- .0041915 TIME

(1.80)

 $\overline{R}^2 = .967$ SEE = .0107 D.W. = 2.189

Name: Deflator, Consumer Expenditures, Gross Rent Paid

Mnemonic: PFCSR20 Period: 1956-74

PFCSR20 - PF08

= - .64116 (11.28)

> - .082060 PXDUMMY74 (4.67)

+ 44.81720 1 / TIME (12.60)

- .014777 PFDUM7174 (1.22)

 $R^2 = .959$

SEE = 0.0152 D.W. = 1.231

Equation No.: 966

Name: Deflator, Consumer Expenditures, Other Lodging

Mnemonic: PFCSR30 Period: 1958-74

PFCSR30 - PF09

= + .70265 (2.09)

+ .96261 (PFCSR30(-1) - PF09(-1))

(3.16)

-.69683 (PFCSR30(-2) - PF09(-2))

(2.03)

- .010139 TIME

(2.15)

 $R^2 = .929$ SEE = .0196 D.W. = 2.242

Name: Deflator, Consumer Expenditures, Other Auto Related Services

Mnemonic: PFCST40 Period: 1958-74

PFCST40 - PF27

+ .0014312
(0.08)

+ .87415 (PFCST40(-1) - PF27(-1))

(3.77)

-.031841 (PFCST40(-2) - PF27(-2))

(0.08)

+ .0020133 PFDUM6170

(0.14)

- .043601 PFDUM7174

(2.00)

 $R^2 = .776$ SEE = .0203 D.W. = 2.206

Equation No.: 968

Name: Deflator, Consumer Expenditures, Purchased Transportation

Mnemonic: PFCST50 Period: 1958-74

PFCST50 - PF28

= - .028186 (0.11)

+ 1.53913 (PFCST50(-1) - PF28(-1)) (5.99)

- .67900 (PFCST50(-2) - PF28(-2)) (2.93)

+ .00018662 TIME (0.052)

 $\overline{R}^2 = .938$ SEE = .0200 D.W. = 2.115

Name: Deflator, Consumer Expenditures, Communications

Mnemonic: PFCST60 Period: 1958-74

PFCST60 - PF29

= + .077796
(5.55)

- .42047 (PFCST60(-1) - PF29(-1)) (1.82)

(1.82

-.23151 (PFCST60(-2) - PF29(-2))

(1.53)

+ .0098054 PFDUM6170

(1.01)

- .084469 PFDUM6670

(5.62)

- .082072 PFDUM7174

(5.10)

 $\overline{R}^2 = .828$ SEE = .0123 D.W. = 2.263

Equation No.: 970

Name: Deflator, Consumer Expenditures, New Passenger Cars

Mnemonic: PFCDT11

Period: 1956-74

PFCDT11

= + .016214 (3.50)

+ .99372 PFCDT10

(176.33)

- .00015114 TIME

(2.91)

 $R^2 = 1.000$ SEE = .0010 D.W. = 1.130

)')

Equation No.: 971

Name: Deflator, Consumer Expenditures, Travel Expenditure

Services

Mnemonic: PFCSA11 Period: 1956-74

PFCSA11

= - .32993 (3.85)

+ .532344 ZUSPFCSA11

(6.52)

+ .011271 TIME

(4.98)

 $\overline{R}^2 = .986$ SEE = .017

D.W. = 1.020

Equation No.: 972

Name: Deflator, Consumer Expenditures, Military Pay and

Allowances Abroad

Mnemonic: PFCSA12 Period: 1956-74

PFCSA12

+ .00079604
(0.069)

+ .99525 ZGFRUKPFCSA12 (76.72)

 $\overline{R}^2 = .997$ SEE = .015 D.W. = 1.237

Equation No.: 974

Name: Deflator, Consumer Expenditures, Travel Expenditure Receipts

Mnemonic: PFCSA14 Period: 1956-74

PFCSA14

= + .0055729 (1.36)

> + •99468 PFCSA14E (205.88)

 $\overline{R}^2 = 1.000$ SEE = .0039 D.W. = 1.287

Equation No.: 975

Name: Deflator, Consumer Expenditures, Dentists' Fees

Mnemonic: PFCSM12 Period: 1956-74

PFCSM12

= - .43826 (7.12)

> + .94745 PFCSM10 (24.39)

+ .0071204 TIME (5.18)

 $R^2 = .998$ SEE = .0098 D.W. = 1.492

Name: Deflator, Consumer Expenditures, Other Health Practitioners'

Fees

Mnemonic: PFCSM13

Period: 1956-74

PFCSM13

= - .32022

(4.87)

+ .50465

PFCSM10

(12.18)

+ .011651 TIME

(7.94)

 $\bar{R}^2 = .996$

SEE = .010

D.W. = 1.017

Equation No.: 3078

Name: Price Index -- Home Ownership

Period: 1957-74 Mnemonic: PFHOWIX

PFHOWIX

= - .37500 (20.53)

> + .59185 PFRC INAB (13.34)

+ .11516 PXIBTNCD (1.51)

+ sum(i=0,3)b(i) FRMC

i b(i) t(i)

0 +.0089466 (1.17) 1 +.012210 (2.74) 2 +.019634 (4.71) 3 +.031220 (3.97)

3

sum +.072010 (7.15)

(2,4,NONE)

 $R^2 = .998$ SEE = .010

D.W. = 1.492

Name: Consumer Price Index

Mnemonic: CPI

Period: 1952-76

CPI - CPI(-1)

```
((((2.9135 * PFCDE10) + (2.1024 * PFCDH10)
= + .98735
  (130.04)
                + (1.4162 * PFCDH20) + (5.6497 * PFCDT10)
                + (1.4137 * PFCDT20) + (3.1109 * PFCHC10)
                + (4.6747 * PFCHC20) + (1.6898 * PFCHC30)
                + (1.2115 * PFCHE20) + (1.2407 * PFCHH30)
                + (0.1583 * PFCHP10) + (20.0156 * PFCNF10)
                + (3.1947 * PFCNF20) + (2.8587 * PFCNF30)
                + (0.7966 * PFCNM40) + (1.5958 * PFCNH40)
               + (1.5077 * PFCNP20) + (1.5370 * PFCNR40)
                + (0.7323 * PFCNR50) + (1.5490 * PFCNR60)
                + (3.3929 * PFCNT30) + (1.1176 * PFCSE30)
                + (0.9183 * PFCSE40) + (0.9818 * PFCSH50)
                + (0.7770 * PFCSH60) + (0.2094 * PFCSH70)
               + (0.8255 * PFCSM12) + (1.2881 * PFCSP30)
               + (4.9678 * PFCSP40) + (8.3351 * PFCSR20)
               + (2.2967 * PFCST40) + (2.4203 * PFCST50)
               + (1.5675 * PFCST60) + (11.5332 * PFHOWIX)) / 100)
                - (((2.9135 * PFCDE10(-1)) + (2.1024 * PFCDH10(-1))
               + (1.4162 * PFCDH20(-1) + (5.6497 * PFCDT10(-1))
               + (1.4137 * PFCDT20(-1) + (3.1109 * PFCHC10(-1))
               + (4.6747 * PFCHC20(-1) + (1.6898 * PFCHC30(-1))
               + (1.2115 * PFCHE20(-1) + (1.2407 * PFCHH30(-1))
               + (0.1583 * PFCHP10(-1) + (20.0156 * PFCNF10(-1))
               + (3.1947 * PFCNF20(-1) + (2.8587 * PFCNF30(-1))
               + (0.7966 * PFCNM40(-1) + (1.5958 * PFCNH40(-1))
               + (1.5077 * PFCNP20(-1) + (1.5370 * PFCNR40(-1))
               + (0.7323 * PFCNR50(-1) + (1.5490 * PFCNR60(-1))
               + (3.3929 * PFCNT30(-1) + (1.1176 * PFCSE30(-1))
               + (0.9183 * PFCSE40(-1) + (0.9818 * PFCSH50(-1))
               + (0.7770 * PFCSH60(-1) + (0.2094 * PFCSH70(-1))
               + (0.8255 * PFCSM12(-1) + (1.2881 * PFCSP30(-1))
               + (4.9678 * PFCSP40(-1) + (8.3351 * PFCSR20(-1))
               + (2.2967 * PFCST40(-1) + (2.4203 * PFCST50(-1))
               + (1.5675 * PFCST60(-1) + (11.5332 * PFHOWIX(-1)))
                 / 100))
```



ANOTHER PLASTITAB PRODUCT BY LOWE-MARTIN COMPANY INC



FINAL DEMAND DEFLATORS
GOVERNMENT PURCHASES OF GOODS AND SERVICES

In our discussion of the final demand side of Candide Model 2.0, we indicated that purchases of government current goods and services are disaggregated by level of government. For federal, provincial, and municipal and local, real government spending is explained by reaction functions. For pension plans (estimated in current dollars) the administrative costs are explained by benefit activity. Goods and services purchased in the hospital accounts (for both public and private) are estimated as demand functions in the consumption block with ratio techniques used to split public from private. We also indicated that a preconverter is used to map demand categories associated with the reaction functions, the pension plan administrative costs and the combined public and private demand functions for health care to a value-added other goods and services accounting framework.

For this reason the government pseudo final demand prices which are returned from the price conversion step, in several cases, must be weighted to conform definitionally with deflators associated with the final demand categories by level of government.

There are other caveats associated with the prices of government final demand categories by level of government. There is only one deflator for federal, provincial, municipal and local, and hospital capital consumption allowances. Also, for other goods and services purchases associated with federal, provincial, local and hospital only one deflator exists. For the remaining expenditure categories by level of government, separate deflators are used and separate stochastic equations have been estimated. In all cases, the deflators associated with the demand categories by level of government depend on the pseudo final demand deflators available from the price conversion step. In total there are 15 separate deflators associated with government expenditures on current goods and services.

In this block there are three equations associated with capital consumption allowances (in current dollars) by level of government. These equations are rate-base calculations estimated in logarithmic form with unitary elasticities. The major explanatory variables in these equations are capital stock by level of government, economic depreciation rates by level of government, and the price deflators for investment goods. The deflators are used to value capital stock.

Once the deflators by level of government are available, the National Accounts identity relating current

dollar value to prices times quantities provides estimates of the nominal values for goods and services categories by level of government. These goods and services categories, when tallied, add to the National Accounts concept of government purchases of goods and services in current dollars.

CURRENT GOODS & SERVICES PRICE BLOCK	ى	GEH.CGS.CCA GEH.CGS.CCA GEH.CGS.QG GEH.GGS.WS GEL.GGS.WS GEL.GGS.WS GEL.GGS.WS GEL.IED.BOS GEL.IED.BOS GEL.IED.BOS GEL.IED.BOS GEL.IED.CG GEL.IED.CG GEL.IED.CG GEL.IED.CG GEL.IED.CG GEL.IED.CG GEL.IED.CG GEL.IED.CG	GEL.K.NE GEL.K.ORN GEL.K.ORN GEL.GS GEP.CGS.GS GEP.CGS.MS GEP.CGS.WS GEP.LED.BOS GEP.LED.HWY
VARIABLES DETERMINED OUTSIDE THE GOVERNMENT EXPENDITURE CURRENT GOODS	GOVT EXPND - CURNT GDS & SRVS, TOTAL GOVT RXPND - CURNT GDS & SRVS, DEFENCE MILITARY PAY GOVT RXPND - CURNT GDS & SRVS, OFFER DEPRECIATION GOVT EXPND - CURNT GDS & SRVS, OTHER NET OF DEPRECIATION GOVT EXPND - CURNT GDS & SRVS, TOTAL FED GOVT EXPND - CURNT GDS & SRVS, TOTAL FED GOVT EXPND - CURNT GDS & SRVS, DEF RESIDUAL FED GOVT EXPND - CURNT GDS & SRVS, DEF RESIDUAL FED GOVT EXPND - CURNT GDS & SRVS, DEF CAPITAL FED GOVT EXPND - CURNT GDS & SRVS, DEF CAPITAL FED GOVT EXPND - CURNT GDS & SRVS, DEF CAPITAL FED GOVT EXPND - CURNT GDS & SRVS, DEF CAPITAL FED GOVT EXPND - CURNT GDS & SRVS, NON DEFENCE OTHER FED GOVT EXPND - CURNT GDS & SRVS, NON DEFENCE OTHER FED GOVT EXPND - CURNT GDS & SRVS, NON DEFENCE OTHER FED GOVT EXPND - CURNT GDS & SRVS, NON DEFENCE OTHER FED GOVT EXPND - CURNT GDS & SRVS, NON DEFENCE WAGES & SAL FED GOVT EXPND - CURNT GDS & SRVS, NON DEFENCE WAGES & SAL FED GOVT EXPND - CURNT GDS & SRVS, NON DEFENCE WAGES & SAL FED GOVT EXPND - CURNT GDS & SRVS, NON DEFENCE FED GOVT EXPND - CURNT GDS & SRVS, NON DEFENCE FED GOVT EXPND - CURNT GDS & SRVS, NON DEFENCE FED GOVT EXPND - CURNT GDS & SRVS, NON DEFENCE FED GOVT EXPND - CURNT GDS & SRVS, NON DEFENCE FED GOVT EXPND - CURNT GDS & SRVS, NON DEFENCE FED GOVT EXPND - CURNT GDS & SRVS, NON DEFENCE FED GOVT EXPND - CURNT GDS & SRVS, NON DEFENCE FED GOVT EXPND - CURNT GDS & SRVS, NON DEFENCE FED GOVT EXPND - CURNT GDS & SRVS, NON DEFENCE FED GOVT EXPND - CURNT GDS & SRVS, NON DEFENCE FED GOVT EXPND - CURNT GDS & SRVS, NON DEFENCE FED GOVT EXPND - CURNT GDS & SRVS, NON DEFENCE FED GOVT EXPND - CURNT GDS & SRVS, NON DEFENCE FED GOVT EXPND - CURNT GDS & SRVS, NON DEFENCE FED GOVT EXPND - CURNT GDS & SRVS, NON DEFENCE FED GOVT EXPND - CURNT GDS & SRVS, NON DEFENCE FED GOVT EXPND - CURNT GDS & SRVS, NON DEFENCE FED GOVT EXPND - CURNT GDS & SRVS, NON DEFENCE FED GOVT EXPND - CURNT GDS & SRVS, NON GDS - CONST FED GOVT EXPND - CURNT GDS - CONST FED GOVT EXPLIBITION CONST FED GOVT EXPRISED FOR CONST FED GOVT EXPLIBITION CO	TV000 TV000	LOCAL GOVT CAP STOCK - MACH & EDUIP LOCAL GOVT CAP STOCK - OTHER ENGINEERING CONST LOCAL GOVT CAP STOCK - COTHER ENGINEERING CONST LOCAL GOVT CAP STOCK - SCHOOLS BLDG CONST RROW GOVT EXPND - GDS & SRVS, NET OF DEPREC RROW GOVT EXPND - GDS & SRVS, NET OF DEPREC RROW GOVT EXPND - GDS & SRVS, WEDICARE RROW GOVT EXPND - GDS & SRVS, WACES & SAL, SLI PROV GOVT ECON DEPR - BLDG OTHER THAN SCHOOLS RROW GOVT ECON DEPR - HIGHWAY CONST

GEP.IED.ME
GEP.IED.CEN
GEP.K.BO.
GEP.K.BO.
GEP.K.HWY
GEP.K.ME
GEP.K.O.
GEP.K.O.
GEP.K.O.
GEP.K.O.
GEP.K.O.
GEP.K.O.
GEP.C.
GEP.C

CANADA PENSION PLAN - BENEFITS PAID
QUEBEC PENSION PLAN - BENEFITS PAID
DUMMY VARIABLE - FINAL DEMAND PRICE BLOCK
DUMMY VARIABLE - FINAL DEMAND PRICE BLOCK
DUMMY VARIABLE - FINAL DEMAND PRICE BLOCK
DEFLATOR GOVT EXPND - INVST HWY & ROAD
DEFLATOR GOVT EXPND - INVST HWY & ROAD
DEFLATOR GOVT EXPND - INVST MACH & EQUIP GOVT ECON DEPR - SCHOOLS BLDG CONST GOVT CAP STOCK - BLDG OTHER THAN SCHOOLS GOVT CAP STOCK - HIGHWAY CONST OTHER ENGINEERING CONST PROV GOVT CAP STOCK - OTHER ENGINEERING CONST PROV GOVT CAP STOCK - SCHOOLS BLDG CONST DEFLATOR GOVT EXPND - INVST OTHER ENG CONSTR DUMMY VARIABLE - SECTOR DEFLATOR, RDP BLOCK ECON DEPR - MACH & EQUIP PROV GOVT CAP STOCK - MACH & EQUIP DEFLATOR GOVT EXPND - RESIDENTIAL DEPR -ECON GOVT GOVT PROV PROV PROV

DUMMY VARIABLE - FINAL DEMAND PRICE BLOCK



	= GEH.CGS.WS * PFGEH.CGS.WS	= GEH.CGS.OGS\$ + GEH.CGS.WS\$	= GEH.CGS.GS\$ / GEH.CGS.GS	= GEH.CGS\$ / GEH.CGS	= GEH.CGS.CCA\$ + GEL.CGS.CCA\$ + GEP.CGS.CCA\$	+ GEF.CGS.CCA\$	= GEF.CGS.NDOGS\$ + GEF.CGS.DINV\$ + GEF.CGS.DOTH\$	+ GEL.CGS.OGS\$ + GEPENC.GS\$ + GEPENQ.GS\$	+ GEP.CGS.OGS\$ + GEH.CGS.OGS\$ + GEP.CGS.MED\$	= GE.CGS.OGS\$ / GE.CGS.OGS	= GEF.CGS.DMP\$	= GE.CGS.DMP\$ / GE.CGS.DMP	= GEF.CGS.DCWS\$ + GEF.CGS.NDWS\$ + GEP.CGS.WS\$	+ GEL.CGS.WSS\$ + GEL.CGS.WSM\$ + GEH.CGS.WS\$	= GE.CGS.WS\$ / GE.CGS.WS	= GE.CGS.OGS\$ + GE.CGS.DMP\$ + GE.CGS.WS\$	= GE.CGS.GS\$ / GE.CGS.GS	= GE.CGS.GS\$ + GE.CGS.CCA\$	= GE.CGS\$ / GE.CGS	
_	GEH. CGS.WS\$	GEH. CGS.GS\$	PFGEH.CGS.GS	PFGEH. CGS	GE, CGS, CCA\$		GE.CGS.OGS\$			PFGE, CGS, OGS	GE.CGS.DMP\$	PFGE, CGS, DMP	GE.CGS.WS\$		PFGE.CGS.WS	GE.CGS.GS\$	PFGE, CGS,GS	GE.CGS\$	PFGE.CGS	
	HOSP GOVT EXPND - GDS & SRVS, WAGES & SAL, SLI	HOSP GOUT EXPND - GDS & SRVS, NET OF DEPREC	DEFLATOR HOSP GOVT EXPND - GDS & SRVS, NET OF DEPREC	DEFLATOR HOSP GOVT EXPND - GDS & SRVS, TOTAL	GOVT EXPND - CURNT GDS & SRVS, DEPREC		GOVT EXPND - CURNT GDS & SRVS, OTH NET OF DEPREC			DEFLATOR GOVT EXPND - CURNT GDS & SRVS, OTH NET OF DEPREC	GOVT EXPND - CURNT GDS & SRVS, DEF MIL PAY	DEFLATOR GOVT EXPND - CURNT GDS & SRVS, DEF MIL PAY	GOVT EXPND - CURNT GDS & SRVS, WAGES & SAL, SLI		DEFLATOR GOVT EXPND - CURNT GDS & SRVS, WAGES & SAL, SLI	GOVT EXPND - CURNT GDS & SRVS, NET OF DEPREC	DEFLATOR GOVT EXPND - CURNT GDS & SRVS, NET OF DEPREC	GOVT EXPND - CURNT GDS & SRVS, TOTAL	DEFLATOR GOVT EXPND - CURNT GDS & SRVS, TOTAL	



Equation No.: 1043

Name: Deflator, Government Expenditure, Other Goods and Services

Mnemonic: PFGE.OTH Period: 1957-74

((PFGE.OTH / PFGE.OTH(-1)) - 1) * 100

$$R^2 = 0.456$$
 SEE = 1.653 D.W. = 1.153

S.

Equation No.: 1044

Name: Deflator, Government Expenditure, Current Goods and Services,

Depreciation

Mnemonic: PFGE.CGS.CCA Period: 1958-74

PFGE.CGS.CCA - PF78+80+4+6+8

= + .10684 (2.36)

+ .94878 (PFGE.CGS.CCA(-1) - PF78+80+4+6+8(-1)) (3.99)

- .39498 (PFGE.CGS.CCA(-2) - PF78+80+4+6+8(-2)) (1.66)

- .033036 PFDUM6170 (1.47)

- .040008 PFDUM6670 (2.51)

- .12352 PFDUM7174 (2.66)

 $R^2 = 0.959$ SEE = .021

D.W. = 2.322



Equation No.: 1045

Name: Deflator, Government Expenditure, Defence Military Pay

Mnemonic: PFGEF.CGS.DMP

Period: 1956-74

(PFGEF.CGS.DMP - PF82) / PF82

= - .13791 (2.23)

> + 10.34170 1 / TIME (2.68)

+ .025590 PFDUM7174 (2.05)

 $R^2 = .228$

SEE = .0165

D.W. = 1.450

Name: Deflator, Federal Government Expenditure, Current Goods and

Services, Defence Capital

Mnemonic: PFGEF.CGS.DINV Period: 1957-74

PFGEF.CGS.DINV - PF83

= **-** .35099 (5.70)

+ .67222 (PFGEF.CGS.DINV(-1) - PF83(-1))

(6.63)

+ .0051487 TIME

(5.66)

 $\overline{R}^2 = 0.872$ SEE = .019 D.W. = 1.564

Equation No.: 1047

Name: Deflator, Federal Government Expenditure, Current Goods and Services, Defence Military Pay

Mnemonic: PFGEF.CGS.DOTH

Period: 1957-74

((PFGEF.CGS.DOTH / PFGEF.CGS.DOTH(-1)) - 1) * 100

$$\bar{R}^2 = 0.670$$

 $\overline{R}^2 = 0.670$ SEE = 1.405 D.W. = 1.443

Name: Deflator, Federal Government Expenditure, Current Goods and

Services, Defence, Civilian Wages and Salaries

Mnemonic: PFGEF.CGS.DCWS Period: 1958-74

PFGEF.CGS.DCWS - PF82

= - .011569 (1.22)

+ .82728 (PFGEF.CGS.DCWS(-1) - PF82(-1))

(4.84)

- .80632 (PFGEF.CGS.DCWS(-2) - PF82(-2))

(5.78)

- .012478 PFDUM6170

(1.18)

- .049446 PFDUM6670

(3.44)

- .031126 PFDUM7174

(2.88)

 $\overline{R}^2 = 0.866$ SEE = .014 D.W. = 2.565

Equation No.: 1049

Name: Deflator, Federal Government Expenditure, Wages and Salaries

and SLI

Mnemonic: PFGEF.CGS.NDWS Period: 1958-74

PFGEF.CGS.NDWS - PF78+80+4

= + .17012 (1.54)

+ .32902 (PFGEF.CGS.NDWS(-1) / PF78+80+4(-1))

(1.63)

+ .50218 (PFGEF.CGS.NDWS(-2) / PF78+80+4(-2))

(2.49)

+ .0076131 PFDUM6170

(1.06)

- .025817 PFDUM6670

(3.38)

 $R^2 = 0.850$ SEE = .011 D.W. = 2.136

Name: Deflator, Provincial Government Expenditure, Wages and Salaries

and SLI

Mnemonic: PFGEP.CGS.WS Period: 1956-74

PFGEP.CGS.WS - PF78+80+8

= - .33289 (8.56)

+ .046107 PXDUMMY74 (3.84)

+ 22.89910 1 / TIME (9.42)

+ .014242 PFDUM7174 (1.73)

 $R^2 = 0.861$ SEE = .0104

D.W. = 1.706

Equation No.: 956

Name: Deflator, Provincial Government Expenditure, Current Goods and

Services, Medicare

Mnemonic: PFGEP.CGS.MED Period: 1962-74

ln(PFGEP.CGS.MED)

= - .027893 (1.56)

+ .95699 ln(PF89)

(11.29)

+ .014143 PFDUM7174

(0.46)

 $\overline{R}^2 = 0.973$ SEE = .029 D.W. = 1.031

Name: Deflator, Local Government Expenditure, Goods and Services,

Wages and Salaries, Municipal Schools

Mnemonic: PFGEL.CGS.WSS Period: 1956-74

(PFGEL.CGS.WSS - PF80) / PF80

= - 10.90160 1 / TIME

(18.06)

+ .17060 PFDUM7174

(9.54)

+ .11443 PFDUM6670

(6.85)

 $R^2 = 0.884$ SEE = .0317 D.W. = 1.382

Equation No.: 1052

Name: Deflator, Local Government Expenditure, Goods and Services,

Municipal (Excluding Schools)

Mnemonic: PFGEL.CGS.WSM Period: 1957-74

PFGEL.CGS.WSM - PF86

= - .095824 (2.41)

> + .88662 (PFGEL.CGS.WSM(-1) - PF86(-1)) (7.18)

+ .0014500 TIME (2.45)

 $R^2 = 0.801$ SEE = .0126 D.W. = 2.243

Name: Deflator, Hospital Government Expenditure, Wages and Salaries

and SLI

Mnemonic: PFGEH.CGS.WS Period: 1958-74

PFGEH.CGS.WS - PF78

= **-** .39069 (9.28)

+ .05542 (PFGEH.CGS.WS(-1) - PF78(-1)) (0.49)

- .017169 (PFGEH.CGS.WS(-2) - PF78(-2)) (0.18)

+ .42865 PFDUM6170 (10.41)

- .036689 PFDUM6670 (1.34)

+ .43842 PFDUM7174 (9.34)

 $R^2 = 0.951$ SEE = .039 D.W. = 1.224

Equation No.: 1054

Name: Deflator, Hospital Government Expenditure, Goods and Services,

Other Net of Depreciation

Mnemonic: PFGEH.CGS.OGS

Period: 1962-74

PFGEH.CGS.OGS / PF79

= + .0197995 (0.12)

+ .440237 (PFGEH.CGS.OGS(-1) / PF79(-1))

(1.12)

+ .0073902 TIME (1.15)

 $R^2 = 0.757$ SEE = .031 D.W. = 1.159

Name: Quebec Pension Plan -- Administration Cost

Mnemonic: GEPENQ.GS\$

Period: 1968-76

GEPENQ.GS\$

= + 7.82793(8.62)

+ .0502345 GEPENQ.TPE.BEN\$

(6.97)

 $\bar{R}^2 = 0.856$

SEE = 1.811 D.W. = 2.540

Equation No.: 1056

Name: Canada Pension Plan -- Administration Cost

Mnemonic: GEPENC.GS\$ Period: 1968-76

GEPENC.GS\$

= + 9.66839 (7.10)

+ .0176284 GEPENC.TPE.BEN\$ (7.20)

+ .468675 GEPENC.GS\$(-1) (5.11)

 $R^2 = 0.979$ SEE = 1.195 D.W. = 3.203 RHO = -.694

1069

Name: Federal Government Expenditure, Current Goods and Services,

Depreciation

Mnemonic: GEF.CGS.CCA\$

Period: 1954-76

ln(GEF.CGS.CCA\$)

 $R^2 = 0.996$ SEE = .033 D.W. = .410 RHO = .806

Equation No.: 1076

Name: Provincial Government Expenditure, Current Goods and Services,

Depreciation

Mnemonic: GEP.CGS.CCA\$ Period: 1954-76

ln(GEP.CGS.CCA\$)

 $\overline{R}^2 = 0.999$ SEE = .019 D.W. = 1.243

Name: Local Government Expenditure, Goods and Services, Depreciation

Mnemonic: GEL.CGS.CCA\$ Period: 1954-76

ln(GEL.CGS.CCA\$)

= '+ .739739 (8.60)

> + .940873 ln((GEL.K.SCH * GEL.IED.SCH * PFGE.INV.BUILD) (59.39) + (GEL.K.BOS * GEL.IED.BOS * PFGE.INV.BUILD) + (GEL.K.HWY * GEL.IED.HWY * PFGE.INV.HWY) + (GEL.K.OEN * GEL.IED.OEN * PFGE.INV.OEN) + (GEL.K.ME * GEL.IED.ME * PFGE.INV.ME))

 $R^2 = 0.998$ SEE = .031 D.W. = .639 RHO = .623









FINAL DEMAND DEFLATORS GOVERNMENT INVESTMENT

The final demand deflators associated with government investment are available at the aggregate level only. The aggregate level deflators have been used for federal, provincial, local, and hospital investment. Unlike current purchases of goods and services, we do not distinguish deflators by level of government. This is an obvious limitation but was necessary because of inadequate data sources. There are five deflators associated with this block: nonresidential buildings, highways, other engineering, machinery and equipment, and residential structures. The major factors influencing the determination of these deflators are the pseudo final demand prices associated with construction. The estimated final demand deflators are used to evaluate quantities by level of government. Using the appropriate National Accounts identities, we construct nominal values by level of government. When tallied, investment by level of government in nominal terms provides an estimate of government capital formation and the price associated with this activity.



VARIABLES DETERMINED OUTSIDE THE GOVERNMENT INVESTMENT PRICE BLOCK

GE.INV.CAPF	GE.INV.NR	GEF.INV.BOS	GEF.INV.CAPF	GEF.INV.HWY	GEF.INV.ME	GEF.INV.NR	GEF.INV.OEN	GEF.INV.RES	GEH. INV	GEH.INV.ME	GEH. INV.NR	GEL. INV	GEL.INV.BOS	GEL.INV.HWY	GEL. INV. ME	GEL.INV.NR	GEL.INV.OEN	GEL. INV. SCH	GEP. INV	GEP.INV.BOS	GEP. INV. HWY	GEP.INV.ME	GEP. INV.NR	GEP. INV.OEN	GEP. INV. SCH	PFDUM6170	PFDUM7174	PFRCINAB TIME
GOUT EXPND - INVST TOTAL CAPITAL FORMATION	ID - INVS	FED GOVT EXPND - INVST BLDG OTHER THAN SCHOOLS	FED GOUT EXPND - INVST TOTAL FIXED CAP FORMATION	FED GOVT EXPND - INVST HIGHWAY CONSTRUCTION	FED GOVT EXPND - INVST MACH & EQUIP	FED GOVT EXPND - INVST NONRES CONSTRUCTION	FED GOVT EXPND - INVST OTHER ENGINEERING CONST	FED GOVT EXPND - INVST RESIDENTIAL CONST	HOSP GOVT EXPND - INVST TOTAL	HOSP GOVT EXPND INVST MACH & EQUIP	HOSP GOVT EXPND - INVST NONRES CONST	LOCAL GOVT EXPND - INVST TOTAL	LOCAL GOVT EXPND - INVST BLDG OTHER THAN SCHOOLS	LOCAL GOVT EXPND - INVST HIGHWAY CONST	LOCAL GOVT EXPND - INVST MACH & EQUIP	LOCAL GOVT EXPND - INVST NONRES CONST	LOCAL GOVT EXPND - INVST OTHER ENGINEERING CONST	LOCAL GOVT EXPND - INVST SCHOOLS BLDG CONST	PROV GOVT EXPND - INVST TOTAL	PROV GOVT EXPND - INVST BLDG OTHER THAN SCHOOLS	PROV GOVT EXPND - INVST HIGHWAY CONST	PROV GOVT EXPND - INVST MACH & EQUIP	PROV GOUT EXPND - INVST NONRES CONST	PROV GOUT EXPND - INVST OTHER ENGINEERING CONST	PROV GOVT EXPND - INVST SCHOOLS BLDG CONST	DUMMY VARIABLE - FINAL DEMAND PRICE BLOCK	DUMMY VARIABLE - FINAL DEMAND PRICE BLOCK	DEFLATOR RESIDENTIAL CONST INVST - BUSINESS, TOTAL N.A. DUMMY VARIABLE - FINAL DEMAND PRICE BLOCK

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DEFLATOR GOVT EXPND - INVST BLDG CONST DEFLATOR GOVT EXPND - INVST HIGHWAY & ROAD CONST DEFLATOR GOVT EXPND - INVST OTHER ENGINEERING DEFLATOR GOVT EXPND - INVST MACH & EQUIP DEFLATOR GOVT EXPND - INVST MESIDENITAL FED GOVT EXPND - INVST HIGHWAY CONST FED GOVT EXPND - INVST PILGO OTHER THAN SCHOOLS FED GOVT EXPND - INVST PICHER THAN SCHOOLS FED GOVT EXPND - INVST RESIDENITAL CONST FED GOVT EXPND - INVST RESIDENITAL CONST FED GOVT EXPND - INVST RESIDENITAL CONST FROW GOVT EXPND - INVST SCHOOL CONST PROW GOVT EXPND - INVST SCHOOL CONST PROW GOVT EXPND - INVST SCHOOLS BLDG COAL GOVT EXPND - INVST DACH & EQUIP LOCAL GOVT EXPND - INVST HIGHWAY CONST LOCAL GOVT EXPND - INVST MACH & EQUIP HOSP GOVT EXPND - INVST MACH & EQUIP HOSP GOVT EXPND - INVST MACH & EQUIP HOSP GOVT EXPND - INVST MACH & EQUIP	EED GOVT EXPND - INNST NONRESIDENTIAL DEFLATOR FED GOVT EXPND - INVST, NONRESIDENTIAL FED GOVT EXPND - INVST FIXED CAPITAL DEFLATOR FED GOVT EXPND - INVST FIXED PROV GOVT EXPND - INVST NONRESIDENTIAL	DEFLATOR PROV GOVT EXPND - INVST NONRESIDENTIAL PROV GOVT EXPND - INVST TOTAL DEFLATOR PROV GOVT EXPND - INVST TOTAL LOCAL GOVT EXPND - INVST TOTAL DEFLATOR LOCAL GOVT EXPND - INVST NONRESIDENTIAL DEFLATOR LOCAL GOVT EXPND - INVST TOTAL DEFLATOR LOCAL GOVT EXPND - INVST TOTAL DEFLATOR LOCAL GOVT EXPND - INVST TOTAL DEFLATOR HOSP GOVT EXPND - INVST TOTAL GOVT EXPND - INVST SCHOOLS GOVT EXPND - INVST RIDG OTHER THAN SCHOOLS	GOVT EXPND - INVST OTHER ENGINEERING CONST GOVT EXPND - INVST HIGHWAY CONST GOVT EXPND - INVST NONRES CONST DEFLATOR GOVT EXPND - INVST NONRES CONST GOVT EXPND - INVST RESIDENTIAL GOVT EXPND - INVST MACH & EQUIP GOVT EXPND - INVST TOTAL CAPITAL FORMATION DEFLATOR GOVT EXPND - INVST TOTAL CAPITAL FORMATION

Equation No.: 1102

Name: Deflator, Government Expenditure, Investment in Building

Construction

Mnemonic: PFGE.INV.BUILD Period: 1958-74

PFGE.INV.BUILD - PF75

= + .338912 (2.52)

+ .839858 (PFGE.INV.BUILD(-1) - PF75(-1))

(2.93)

- .468297 (PFGE.INV.BUILD(-2) - PF75(-2))

(1.63)

- .00504344 TIME

(2.57)

 $R^2 = .809$ SEE = .0185 D.W. = 1.746

Name: Deflator, Government Expenditure, Investment in Highway

and Road Construction

Mnemonic: PFGE.INV.HWY Period: 1957-74

PFGE.INV.HWY / PF75

+ .366423
(1.33)

+ .509725 (PFGE.INV.HWY(-1) - PF75(-1))

(4.41)

+ .00212454 TIME

(0.79)

 $R^2 = .603$ SEE = .04416

.04416 D.W. = 1.599

Equation No.: 1104

Name: Deflator, Government Expenditure, Investment in Other

Engineering Construction

Mnemonic: PFGE.INV.OEN Period: 1958-74

PFGE.INV.OEN - PF75

+ .000817157
(0.11)

+ .867160 (PFGE.INV.OEN(-1) - PF75(-1))

(2.92)

- .427515 (PFGE.INV.OEN(-2) - PF75(-2))

(1.72)

- .0182582 PFDUM6170

(1.86)

- .00976061 PFDUM7174

(0.98)

 $R^2 = .590$ SEE = .0125 D.W. = 1.782

Equation No.: 1105

Name: Deflator, Government Expenditure, Investment in Machinery

and Equipment

Mnemonic: PFGE.INV.ME Period: 1957-74

PFGE.INV.ME - PF72

= + .109357 (1.65)

+ .593955 (PFGE.INV.ME(-1) - PF72(-1))

(2.78)

- .00171006 TIME

(1.71)

 $\overline{R}^2 = .717$ SEE = .01391

SEE = .01391 D.W. = 1.574

Equation No.: 1106

Name: Deflator, Government Expenditure, Investment, Residential

Mnemonic: PFGE.INV.RES Period: 1956-74

PFGE. INV. RES

= + .066216 (1.60)

+ 1.06060 PFRCINAB (22.52)

 $R^2 = .966$ SEE = .044

D.W. = 2.220

1



FINAL DEMAND DEFLATORS
BUSINESS FIXED INVESTMENT CONSTRUCTION

Price conversion provides pseudo deflators which are used in regression techniques to develop the stochastic equations that explain the prices associated with business fixed investment in construction. The application here is straightforward and there are no anomalies. However, in the development of the input-output tables used in industry price and final demand conversion we indicated that the commodity composition of construction investment goods is identical across all purchasing industries because we carry only one construction activity in the Make, Use and Bridge matrices. One construction activity was carried because of data limitations associated with prices and quantities at the industry level. As a result the same pseudo final demand deflator is used as a right hand side variable to explain the construction investment deflators on the final demand side of the model.

These investment deflators are used as inputs to the industry specific user cost of capital calculation.

They are used as proxies for the industry specific acquisition cost of new capital. The investment deflators are also combined with quantities to develop nominal values for investment which when tallied equal the National Accounts total.

VARIABLES DETERMINED OUTSIDE THE BUSINESS FIXED INVESTMENT CONSTRUCTION PRICE BLOCK

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MFDC321+326.9
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FSTYC31.9
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MFNDC172.9
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                                              COMMC543.8
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IMFDC295.8
IMFDC301.9
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PET & COAL PROD INDST - BLDG & ENG CONST
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MOTOR VEHICLE PARTS & ACC - BLDG CONST
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TRANSPORT INDST - BLDG & ENG CONST
 AGRIC FISH & TRAP INDST - BLDG & ENG CONST
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MACH (EXCL ELEC MACH) - BLDG & ENG CONST
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FOOD & BEVERAGE INDST - BLDG & ENG CONST
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FORESTRY INDST - BLDG & ENG CONST
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TEXTILE INDST - BLDG & ENG CONST
KNITTING & CLOTHING INDST - BLDG CONST
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                                              COMMUNICATION INDST - BLDG & ENG CONST
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IRON & STEEL INDST - BLDG CONST
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METAL MINING INDST - BLDG & ENG CONST
NON METAL MINING (EX COAL) - BLDG & EN
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DUMMY VARIABLE - FINAL DEMAND PRICE BLOCK
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                BUS NONRES CONST - N.A.
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VARIABLES EXOGENOUS TO THE BUSINESS FIXED INVESTMENT CONSTRUCTION PRICE BLOCK

INV ACCOUNTING CHECK - BUSINESS, NONRES CONST INV ACCOUNTING CHECK - PRIMARY METAL - B & E CONST INV ACCOUNTING CHECK - TRANSPORT EQUIP - B & E CONST INV ACCOUNTING CHECK - MINING - B & E CONST

IBCCHK\$
IMFDC291.8CHK\$
IMFDC321.9CHK\$
IMICCHK\$

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PFIMFDC321+26.9 * IMFDC321+326.9
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PFIMICLC61 * IMICLC61
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PFIMFDC261.8 * IMFDC261.8
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PFIMFDC311.8 * IMFDC311.8
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PFIMIMO71.87
PFIMFDC251.9
PFIMFDC261.8
PFIMFDC291.4
PFIMFDC391.9
PFIMFDC391.9
PFIMFDC311.8
PFIMFDC321.4
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IMFDC311.8$
IMFDC321+326.9$
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PFIUTILC572.9
PFITRADC602.99
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PFICOMMC543.8
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PFIMFNDC162.5
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RUBBER & PLASTIC PROD INDST - BLDG & ENG CONST
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NON METAL MINING (EX COAL) - BLDG & ENG CONST
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WHOLESALE & RETAIL TRADE INDST - BLDG CONST
                                        CRD PET NATL GAS & SRVS - BLDG & ENG CONST
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 AGRIC FISH & TRAP INDST - BLDG & ENG CONST
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TEXTILE INDST - BLDG & ENG CONST
KNITTING & CLOTHING INDST - BLDG CONST
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METAL MINING INDST - BLDG & ENG CONST
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             FORESTRY INDST - BLDG & ENG CONST
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                                                                                                          IRON & STEEL INDST - BLDG CONST
                          COAL MINING - BLDG & ENG CONST
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VARIABLES ENDOSENOUS TO THE BUSINESS FIXED INVESTMENT CONSTRUCTION PRICE BLOCK (BOTH BEHAVIOURAL & IDENTITIES)

IBNACO\$ / IBNACO

PFIBNACO

DEFLATOR INV BUS NONRES CONST - N.A.

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+ IFIREC701.37$ + IUTILC572.9$ + ITRADC602.99$
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         = IMFDC321.9CHK$ + IMFDC321+326.9$ + IMFDC323.4$
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               + IMFNDC172.9$ + IMFNDC181.9$ + IMFNDC231.49$
+ IMFNDC271.4$ + IMFNDC286.9$ + IMFNDC365.9$
+ IMFNDC372.9$ + IMFNDC391.9$
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          = IMFNDC1Ø1.9$ + IMFNDC151.3$ + IMFNDC162.5$
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          = IMFDC291.8CHK$ + IMFDC291.4$ + IMFDC295.8$
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IMFDC251.9$ + IMFDC261.8$ + IMFDC291.8$
+ IMFDC381.9$ + IMFDC311.8$ + IMFDC321.9$
+ IMFDC331.9$ + IMFDC351.9$
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+ ICNSTC$ + ITRSPC501.27$ + ICOMMC543.8$
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              IMICCHK$ + IMICLC61$ + IMIPC64+96.9$
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= PFIMFDC351.9 * IMFDC351.9

= PFIMFNDC101.9 * IMFNDC101.9

= PFIMFNDC151.3 * IMFNDC151.3

= PFIMFNDC162.5 * IMFNDC172.5

= PFIMFNDC172.9 * IMFNDC172.9

= PFIMFNDC181.9 * IMFNDC181.9
                                                                                                                                                                                                                                                                                                                                                                                                                                       PFITRADC602.99 * ITRADC602.99
                                                                                                                                                        PFIMFNDC231.49 * IMFNDC231.49
                                                                                                                                                                                                                                                                                                                                        PFITRSPC501.27 * ITRSPC501.27
                                                                                                                                                                                                                                                                                                                                                                                          PFIFIREC701.37 * IFIREC701.37
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     + IMIMMC51.9$ + IMINMC71.87$
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                                                                                                                                                                                                                                                       PFIMFNDC372.9 * IMFNDC372.9
PFIMFNDC391.9 * IMFNDC391.9
                                                                                                                                                                                                                                                                                                                                                             PFICOMMC543.8 * ICOMMC543.8
                                                                                                                                                                                                                                                                                                                                                                                                                  PFIUTILC572.9 * IUTILC572.9
                                                                                                                                                                                                       PFIMFNDC286.9 * IMFNDC286.9
                                                                                                                                                                                                                               * IMFNDC365.9
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                                                                                                                                                                                  * IMFNDC271.4
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                                                                                                                                                                                                                                                                                                                   PFICNSTC * ICNSTC
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IMFNDC1Ø1.9$
IMFNDC151.3$
IMFNDC162.5$
IMFNDC172.9$
IMFNDC172.9$
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IMFNDC372.9$
IMFNDC391.9$
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                                  FOOD & BEVERAGE INDST - BLDG & ENG CONST
TOBACCO PROD INDST - BLDG & ENG CONST
RUBBER & PLASTIC PROD INDST - BLDG & ENG CONST
             NON METAL MINING PROD INDST - BLDG & ENG CONST
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                                                                                                                                                                                                                                                                 CHEM & CHEM PROD INDST - BLDG & ENG CONST
                                                                                                                                                                                                                                          PET & COAL PROD INDST - BLDG & ENG CONST
                                                                                                                                                                                                                                                                                                                                                                                                FIN INS & REAL ESTATE INDST - BLDG CONST
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                                                                                                                                                                                                                                                                                                                                                                        COMMUNICATION INDST - BLDG & ENG CONST
                                                                                                                                                             KNITTING & CLOTHING INDST - BLDG CONST
PAPER & ALLIED INDST - BLDG CONST
                                                                                                                                                                                                                                                                                                                      CONSTRUCTION INDST - BLDG & ENG CONST
TRANSPORT INDST - BLDG & ENG CONST
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           COLLEGE & UNIV EDUC - BLDG CONST
                                                                                                              LEATHER INDST - BLDG & ENG CONST
TEXTILE INDST - BLDG & ENG CONST
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Equation No.: 1148

Name: Deflator, Investment, Agriculture and Fishing Industries

-- Construction

Mnemonic: PFIAGFTC Period: 1956-74

PFIAGFTC - PF75

= - 2.57074 1 / TIME

(5.53)

+ .090201 PFDUM7174

(5.73)

 $\overline{R}^2 = .653$ SEE = .0288 D.W. = 1.707

Name: Deflator, Investment, Forestry Industry -- Building and

Engineering Construction

Mnemonic: PFIFSTYC31.9 Period: 1958-74

PFIFSTYC31.9 - PF75

= +.0060798 (0.46)

+ .58507 (PFIFSTYC31.9(-1) - PF75(-1))

(2.10)

- .44105 (PFIFSTYC31.9(-2) - PF75(-2))

(1.62)

- .039656 PFDUM6170

(2.27)

- .038631 PFDUM6670

(1.64)

- .026503 PFFDUM7174

(1.29)

 $R^2 = .701$ SEE = .0227 D.W. = 1.854

Equation No.: 1150

Name: Deflator, Investment, Coal Mining Industry -- Building and

Engineering Construction

Mnemonic: PFIMICLC61 Period: 1957-70

PFIMICLC61 - PF73

= + .34430 (1.90)

+ .094525 (PFIMICLC61(-1) - PF73(-1))

(0.30)

- .0062370 TIME

(2.04)

 $R^2 = .595$ SEE = .0232 D.W. = 1.913

Period: 1971-74

(PFIMICLC61 - PF73) - (PFIMICLC61(-1) - PF73(-1))

= + 5.35762 (4.83)

- .074237 TIME (4.85)

 $R^2 = .882$ SEE = .0342 D.W. = 2.821

Note: These two equations have to be linked for the two periods, 1957-70 and 1971-74, by PFSWITCH2.

<u>Name</u>: Deflator, Investment, Crude Petroleum and Natural Gas Industry -- Building and Engineering Construction

Mnemonic: PFIMIPC64+96.9 Period: 1956-74

(PFIMIPC64+96.9 - PF73) / PF73

= - .50582 (4.82)

+ 28.17030 1 / TIME (4.30)

+ .074150 PFDUM7174 (3.33)

- .11447 PXDUMMY74 (3.53)

 $R^2 = .635$ SEE = .0280

Equation No.: 1152

Name: Deflator, Investment, Metal Mining Industry -- Building and

Engineering Construction

Mnemonic: PFIMIMMC51.9 Period: 1956-74

(PFIMIMMC51.9 - PF73) / PF73

= - .50707 (4.83)

+ 28.25260 1 / TIME (4.30)

+ .074242 PFDUM7174 (3.33)

- .11434 PXDUMMY74 (3.52)

 $R^2 = .635$ SEE = .0280 D.W. = 1.174

Name: Deflator, Investment, Nonmetal Mining Industry -- Building and

Engineering Construction

Mnemonic: PFIMINMC71.87 Period: 1956-74

(PFIMINMC71.87 - PF73) / PF73

= - .32585 (3.18)

> + 17.35670 1 / TIME (2.65)

- .10722 PXDUMMY74 (2.77)

 $\bar{R}^2 = .536$ SEE = .0352 D.W. = 1.072

Equation No.: 1154

Name: Deflator, Investment, Wood Industry -- Building and Engineering

Construction

Mnemonic: PFIMFDC251.9 Period: 1958-74

PFIMFDC251.9 - PF75

(3.92)

(2.00)

 $R^2 = .732$ SEE = .0198 D.W. = 1.819

Name: Deflator, Investment, Furniture and Fixtures Industry --

Building Construction

Mnemonic: PFIMFDC261.8 Period: 1958-74

PFIMFDC261.8 - PF75

$$\bar{R}^2 = .734$$

$$SEE = .0208$$

$$D.W. = 1.891$$



Equation No.: 1156

Name: Deflator, Investment, Iron and Steel Industry --

Building Construction

Mnemonic: PFIMFDC291.4 Period: 1958-74

PFIMFDC291.4 - PF75

= + .19761 (1.97)

+ 1.09219 (PFIMFDC291.4(-1) - PF75(-1))

(4.07)

- .52000 (PFIMFDC291.4(-2) - PF75(-2))

(1.89)

- .0030467 TIME

(2.12)

 $\overline{R}^2 = .773$ SEE = .0190 D.W. = 1.781

Equation No.: 1157

Name: Deflator, Investment, Nonferrous Metals Industry -- Building

and Engineering Construction

Mnemonic: PFIMFDC295.8

Period: 1958-74

PFIMFDC295.8 - PF75

$$\bar{R}^2 = .777$$

SEE = .0188

Equation No.: 1158

Name: Deflator, Investment, Metal Fabricating Industry -- Building and

Engineering Construction

Mnemonic: PFIMFDC301.9 Period: 1958-74

PFIMFDC301.9 - PF75

= + .21021 (1.94)

+ .95617 (PFIMFDC301.9(-1) - PF75(-1))

(3.40)

-.42385 (PFIMFDC301.9(-2) - PF75(-2))

(1.48)

- .0032183 TIME

(1.99)

 $\overline{R}^2 = .748$ SEE = .0193 D.W. = 1.782

Equation No.: 1159

Name: Deflator, Investment, Machinery (Excluding Electrical Machinery)

Industry -- Building and Engineering Construction

Mnemonic: PFIMFDC311.8

Period: 1957-74

PFIMFDC311.8 - PF75

= + .14466 (1.44)

> + .59456 (PFIMFDC311.8(-1) - PF75(-1))(2.91)

- .0022748 TIME (1.51)

 $\overline{R}^2 = .729$ SEE = .0202 D.W. = 1.494

Equation No.: 1160

Name: Deflator, Investment, Nonauto Transport Equipment Industry --

Building and Engineering Construction

Mnemonic: PFIMFDC321+26.9 Period: 1958-74

PFIMFDC321+26.9 - PF75

= + .24864 (2.51)

> + 1.13986 (PFIMFDC321+26.9(-1) - PF75(-1)) (4.57)

> - .66111 (PFIMFDC321+26.9(-2) - PF75(-2)) (4.57)

- .0038093 TIME (2.56)

 $\overline{R}^2 = .789$ SEE = .0189 D.W. = 1.844

Name: Deflator, Investment, Motor Vehicle Industry (Excluding Parts

and Accessories) -- Building and Engineering Construction

Mnemonic: PFIMFDC323.4 Period: 1958-74

PFIMFDC323.4 - PF75

= + .21184 (2.33)

+ 1.16722 (PFIMFDC323.4(-1) - PF75(-1))

(4.53)

- .64524 (PFIMFDC323.4(-2) - PF75(-2))

(2.45)

- .0032608 TIME

(2.38)

 $\overline{R}^2 = .782$ SEE = .0178 D.W. = 1.863

Equation No.: 1162

Name: Deflator, Investment, Motor Vehicle Parts and Accessories

Industry -- Building and Engineering Construction

Mnemonic: PFIMFDC325 Period: 1957-74

PFIMFDC325 - PF75

= + .21207 (1.71)

+ .49470 (PFIMFDC325(-1) - PF75(-1))

(2.20)

- .0032966 TIME

(1.75)

 $R^2 = .623$ SEE = .0279 D.W. = 1.691

Name: Deflator, Investment, Electrical Products Industry --

Building and Engineering Construction

Mnemonic: PFIMFDC331.9 Period: 1958-74

PFIMFDC331.9 - PF75

= + .23691 (2.18)

+ .95408 (PFIMFDC331.9(-1) - PF75(-1))

(3.46)

- .47352 (PFIMFDC331.9(-2) - PF75(-2))

(1.68)

- .0036119 TIME

(2.22)

 $\overline{R}^2 = .751$ SEE = .0193

Equation No.: 1164

Name: Deflator, Investment, Nonmetal Mining Products Industry --

Building and Engineering Construction

Mnemonic: PFIMFDC351.9 Period: 1957-74

PFIMFDC351.9 - PF75

= + .13636 (1.39)

+ .61570 (PFIMFDC351.9(-1) - PF75(-1))

(3.04)

- .0021531 TIME

(1.45)

 $R^2 = .722$ SEE = .0205 D.W. = 1.454

Name: Deflator, Investment, Food and Beverages Industry --

Building and Engineering Construction

Mnemonic: PFIMFNDC101.9

Period: 1958-74

PFIMFNDC101.9 - PF75

= + .22467 (2.05)

+ .96265 (PFIMFNDC101.9(-1) - PF75(-1))

(3.52)

- .45033 (PFIMFNDC101.9(-2) - PF75(-2))

(1.61)

- .0034287 TIME

(2.09)

 $\overline{R}^2 = .755$ SEE = .0196

Equation No.: 1166

Name: Deflator, Investment, Tobacco Products Industry --

Building and Engineering Construction

Mnemonic: PFIMFNDC151.3 Period: 1958-74

PFIMFNDC151.3 / PF75

= + .45034
(2.08)

+ .35941 (PFIMFNDC151.3(-1) - PF75(-1))

(1.57)

+ .22786 (PFIMFNDC151.3(-2) - PF75(-2))

(1.08)

- .049022 PFDUM6170

(2.07)

- .050551 PFDUM7174

(1.80)

 $\overline{R}^2 = .683$ SEE = .0278 D.W. = 2.088

Equation No.: 1167

Name: Deflator, Investment, Rubber and Plastic Products Industry --

Building and Engineering Construction

Mnemonic: PFIMFNDC162.5

Period: 1957-74

PFIMFNDC162.5 - PF75

= + .14017(1.37)

> + .59993 (PFIMFNDC162.5(-1) - PF75(-1))

(2.98)

- .0022025 TIME

(1.43)

 $\bar{R}^2 = .721$ SEE = .0210 D.W. = 1.495

Equation No.: 1168

Name: Deflator, Investment, Leather Industry --

Building and Engineering Construction

Mnemonic: PFIMFNDC172.9 Period: 1957-74

PFIMFNDC172.9 - PF75

= + .24401 (1.86)

+ .38160 (PFIMFNDC172.9(-1) - PF75(-1))

(1.61)

- .0037396 TIME

(1.89)

 $R^2 = .588$ SEE = .0279 D.W. = 1.865

Name: Deflator, Investment, Textile Industry --

Building and Engineering Construction

Mnemonic: PFIMFNDC181.9 Period: 1958-74

PFIMFNDC181.9 - PF75

(3.43)

(1.54)

(2.02)

$$\overline{R}^2 = .756$$
 SEE = .0198

.0198 D.W. = 1.770

Equation No.: 1170

Name: Deflator, Investment, Knitting and Clothing Industry --

Building Construction

Mnemonic: PFIMFNDC231.49 Period: 1958-74

PFIMFNDC231.49 - PF75

= + .028828 (1.74)

+ .98000 (PFIMFNDC231.49(-1) - PF75(-1))

(3.63)

- .37691 (PFIMFNDC231.49(-2) - PF75(-2))

(1.45)

- .034671 PFDUM6170

(1.99)

- .043979 PFDUM7174

(2.11)

 $R^2 = .709$ SEE = .0209 D.W. = 2.051

Name: Deflator, Investment, Paper and Allied Industry --

Building Construction

Mnemonic: PFIMFNDC271.4 Period: 1958-74

PFIMFNDC271.4 - PF75

= + .19028 (1.82)

+ .96817 (PFIMFNDC271.4(-1) - PF75(-1))

(3.43)

- .43354 (PFIMFNDC271.4(-2) - PF75(-2))

(1.49)

- .0029502 TIME

(1.87)

 $\overline{R}^2 = .711$ SEE = .0201 D.W. = 1.833

Equation No.: 1172

Name: Deflator, Investment, Printing, Publishing and Allied

Industry -- Building and Engineering Construction

Mnemonic: PFIMFNDC286.9 Period: 1958-74

PFIMFNDC286.9 - PF75

= + .22771 (2.17)

+ 1.02651 (PFIMFNDC286.9(-1) - PF75(-1))

(3.80)

- .51351 (PFIMFNDC286.9(-2) - PF75(-2))

(1.89)

- .0034709 TIME

(2.22)

 $R^2 = .781$ SEE = .0184

Name: Deflator, Investment, Petroleum and Coal Products Industry --

Building and Engineering Construction

Mnemonic: PFIMFNDC365.9

Period: 1958-74

PFIMFNDC365.9 - PF75

= - .0024628

(0.19)

+ .55523 (PFIMFNDC365.9(-1) - PF75(-1))

(2.02)

- .43660 (PFIMFNDC365.9(-2) - PF75(-2))

(1.70)

- .035964 PFDUM6170

(2.16)

- .042067 PFDUM6670

(1.90)

- .019047 PFDUM7174

(1.00)

 $\overline{R}^2 = .730$ SEE = .0218 D.W. = 1.853

Equation No.: 1174

Name: Deflator, Investment, Chemical and Chemical Products Industry --

Building and Engineering Construction

Mnemonic: PFIMFNDC372.9 Period: 1958-74

PFIMFNDC372.9 - PF75

= + .19044 (1.62)

+ .93720 (PFIMFNDC372.9(-1) - PF75(-1))

(3.64)

- .35811 (PFIMFNDC372.9(-2) - PF75(-2))

(1.33)

- .0029875 TIME

(1.67)

 $R^2 = .669$ SEE = .0255 D.W. = 1.477

Equation No.: 1175

Name: Deflator, Investment, Miscellaneous Manufacturing Industry --

Building and Engineering Construction

Mnemonic: PFIMFNDC391.9

Period: 1957-74

PFIMFNDC391.9 - PF75

= + .18950 (1.65)

+ .56569 (PFIMFNDC391.9(-1) - PF75(-1))

(2.64)

- .0029484 TIME

(1.70)

 $\overline{R}^2 = .748$ SEE = .0218

Equation No.: 1176

Name: Deflator, Investment, Construction Industry --

Building and Engineering Construction

Mnemonic: PFICNSTC Period: 1957-74

PFICNSTC - PF75

= + .14243(1.48)

> + .59228 (PFICNSTC(-1) - PF75(-1))

(2.82)

- .0022152 TIME

(1.54)

 $R^2 = .704$ SEE = .0201 D.W. = 1.458

Name: Deflator, Investment, Transportation Industry --

Building Construction

Mnemonic: PFITRSPC501.27 Period: 1958-74

PFITRSPC501.27 - PF75

= - .0032001

(0.27)

+ .83854 (PFITRSPC501.27(-1) - PF75(-1))

(2.49)

- .82433 (PFITRSPC501.27(-2) - PF75(-2))

(2.33)

- .023331 PFDUM6170

(1.48)

- .040634 PFDUM6670

(1.81)

- .026815 PFDUM7174

(1.57)

 $\overline{R}^2 = .631$ SEE = .020 D.W. = 2.168

Equation No.: 1178

Name: Deflator, Investment, Communications Industry -- Building

and Engineering Construction

Mnemonic: PFICOMMC543.8 Period: 1958-74

PFICOMMC543.8 - PF75

= + .0033489 (0.27)

+ .76840 (PFICOMMC543.8(-1) - PF75(-1))

(2.57)

- .57185 (PFICOMMC543.8(-2) - PF75(-2))

(2.00)

- .028317 PFDUM6170

(1.81)

- .034797 PFDUM6670

(1.42)

- .025058 PFDUM7174

(1.37)

 $R^2 = .688$ SEE = .0212 D.W. = 2.031

Equation No.: 1179

Name: Deflator, Investment, Financial, Insurance and Real Estate

Industry -- Building Construction

Mnemonic: PFIFIREC701.37 Period: 1957-74

PFIFIREC701.37 - PF75

= + .15595 (1.50)

+ .60676 (PFIFIREC701.37(-1) - PF75(-1))

(2.95)

- .0024049 TIME

(1.56)

 $\bar{R}^2 = .754$

SEE = .0199

Equation No.: 1180

Name: Deflator, Investment, Utility Industry -- Building and

Engineering Construction

Period: 1958-74 Mnemonic: PFIUTILC572.9

PFIUTILC572.9 - PF75

= - .0015172 (0.28)

(PFIUTILC572.9(-1) - PF75(-1)) + .96918

(3.75)

(PFIUTILC572.9(-2) - PF75(-2)) - .39242

(1.72)

- .013728 PFDUM6170

(1.63)

 $R^2 = .698$ SEE = .0135 D.W. = 1.767

Name: Deflator, Investment, Wholesale and Retail Trade --

Building Construction

Mnemonic: PFITRADC602.99 Period: 1958-74

PFITRADC602.99 - PF75

= + .20523 (1.97)

+ .96540 (PFITRADC602.99(-1) - PF75(-1))

(3.31)

- .46358 (PFITRADC602.99(-2) - PF75(-2))

(1.53)

- .0031239 TIME

(2.01)

 $R^2 = .692$ SEE = .0197

Equation No.: 1182

Name: Deflator, Investment, Commercial Services -- Building

Construction

Mnemonic: PFISVCMC Period: 1958-74

PFISVCMC - PF75

= + .24208 (2.05)

+ .90776 (PFISVCMC(-1) - PF75(-1))

(3.17)

- .41987 (PFISVCMC(-2) - PF75(-2))

(1.43)

- .0036449 TIME

(2.09)

 $R^2 = .746$ SEE = .0198 D.W. = 1.754

Name: Deflator, Investment, Other Noncommercial Services --

Building Construction

Mnemonic: PFISVNCC Period: 1958-74

PFISVNCC - PF75

= + .24355 (2.09)

+ .86443 (PFISVNCC(-1) - PF75(-1))

(2.84)

- .40318 (PFISVNCC(-2) - PF75(-2))

(1.30)

- .0036466 TIME

(2.13)

 $\overline{R}^2 = .716$ SEE = .0195

D.W. = 1.678

Equation No.: 1184

Name: Deflator Investment, College and University Education --

Building Construction

Mnemonic: PFISVHGEDC806 Period: 1958-74

PFISVHGEDC806 - PF75

= + .21120 (1.87)

+ .95935 (PFISVHGEDC806(-1) - PF75(-1))

(3.00)

- .45663 (PFISVHGEDC806(-2) - PF75(-2))

(1.36)

- .0032088 TIME

(1.91)

 $\overline{R}^2 = .644$ SEE = .022 D.W. = 1.720



FINAL DEMAND DEFLATORS
BUSINESS FIXED INVESTMENT
MACHINERY AND EQUIPMENT

For machinery and equipment, when developing the input output tables used in price and final demand conversion, we are able to introduce different compositional effects for commodities in the Bridge matrix which vary across purchasing industry. For this reason, price conversion provides industry specific pseudo final demand deflators which are used in regression techniques to develop the stochastic equations to explain the prices associated with business fixed investment in machinery and equipment. The application is straightforward. In all cases a pseudo final demand deflator is used to explain a machinery and equipment investment deflator associated with a specific investment category on the demand side of the model.

Once available, these investment deflators are used as industry specific inputs into the user cost of capital calculation. As with investment in construction, they are used as proxies for the industry specific acquisition costs of new capital. Furthermore, the investment deflators are combined with quantities to develop nominal values for investment which, when tallied, equal the National Accounts total.

In the case of machinery and equipment investment, the commodities which have high weight in the Bridge matrix

(the commodity composition of final demand) also have high import content. This implies that changes in domestic costs of these commodities (machinery and autos) will have a small impact on final demand prices while foreign price variations will have a large impact.

VARIABLES DETERMINED OUTSIDE THE BUSINESS FIXED INVESTMENT MACHINERY & EQUIPMENT PRICE BLOCK

IAGFTM IBNAM ICNSTM ICOMMM543.8 IFIREM701.37 IFSTYM31.9 INNUM	IMFDM251.9 IMFDM261.8 IMFDM201.4 IMFDM291.4 IMFDM291.8 IMFDM301.9 IMFDM321.9 IMFDM321.9 IMFDM323.4 IMFDM325.1 IMFDM325.1 IMFDM321.9 IMFDM31.9 IMFDM IMFDM	IMFNDM101.9 IMFNDM162.3 IMFNDM162.3 IMFNDM172.9 IMFNDM172.9 IMFNDM231.4 IMFNDM372.9 IMFNDM372.9 IMFNDM366.9 IMFNDM366.9 IMFNDM372.9 IMFNDM366.9 IMFNDM372.9 IMFNDM366.9 IMFNDM64.9 IMFNDM71.87 IMIPM64.96.9 ISUGMM64.9 ISUGMM64.9 ISUGMM64.9 ITRADM662.9 ITRADM662.9 ITRADM667.9 ITRADM667.8 ITRADM667.8 PFDUM617.8
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回回回回 IBMCHK\$
IMFDM291.8CHK\$
IMFDM321.9CHK\$
IMIMCHK\$

INV ACCOUNTING CHECK - BUSINESS, NONRES MACH & EQUIP INV ACCOUNTING CHECK - PRIMARY METAL - M&E & CICOE INV ACCOUNTING CHECK - TRANSPORT EQUIP - M&E & CICOE INV ACCOUNTING CHECK - MINING - M&E & CICOE

VARIABLES ENDOCENOUS TO THE BUSINESS FIXED INVESTMENT MACHINERY & EQUIPMENT PRICE BLOCK (BOTH BEHAVIOURAL & IDENTITIES)

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ICNSTM$ + ITRSPM501.27$ + ICOMMM543.8$
IFIREM701.37$ + IUTILM572.9$ + ITRADM602.99$
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        = IMFNDM10.9$ + IMFNDM151.3$ + IMFNDM162.5$
+ IMFNDM172.9$ + IMFNDM181.9$ + IMFNDM231.49$
+ IMFNDM271.4$ + IMFNDM286.9$ + IMFNDM365.9$
+ IMFNDM372.9$ + IMFNDM391.9$
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 IMFDM291.8CHK$ + IMFDM291.4$ + IMFDM295.8$
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              + IMFDM301.95 + IMFDM311.85 + IMFDM321.95
+ IMFDM331.95 + IMFDM351.95
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           + IMFDM323.4$ + IMFDM325$
= IMFDM321.9$ / IMFDM321.9
= IMFDM251.9$ + IMFDM261.8$ + IMFDM291.8$
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 IMIMCHK$ + IMICLM61$ + IMIPM64+96.9$
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   IMFDM321.9CHK$ + IMFDM321+326.9$
= PFIMFDM351.9 * IMFDM351.9

= PFIMFUDM161.9 * IMFDM101.9

= PFIMFUDM151.3 * IMFDM161.3

= PFIMFUDM162.5 * IMFUDM162.5

= PFIMFUDM172.9 * IMFUDM172.9

= PFIMFUDM181.9 * IMFUDM181.9

= PFIMFUDM181.9 * IMFUDM181.9
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PFIUTILM572.9 * IUTILM572.9
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                                                                                                                                                                                                                                                                                                                                                                                                                           PFITRSPM501.27 * ITRSPM501.27
PFICOMMM543.8 * ICOMMM543.8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  + IMIMMM51.9$ + IMINMM71.87$
IMIM$ / IMIM
                                                                                                                                                                                                                                                        PFIMFNDM286.9 * IMFNDM286.9
PFIMFNDM365.9 * IMFNDM365.9
PFIMFNDM372.9
PFIMFNDM391.9 * IMFNDM391.9
PFICNSTW * ICNSTM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         PFISVHGEDM806 * ISVHGEDM806
                                                                                                                                                                                                                              PFIMFNDM271.4 * IMFNDM271.4
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  IMFDM291.8$ / IMFDM291.8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          PFISVCMM * ISVCMM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               PFISVNCM * ISVNCM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               = IMFNDM$ / IMFNDM
= IMFDM$ + IMFNDM$
= IMFM$ / IMFM
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IMFNDM365.9$
IMFNDM372.9$
IMFNDM391.9$
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         IMFDM351.9$
IMFNDM101.9$
IMFNDM151.3$
IMFNDM162.5$
IMFNDM172.9$
IMFNDM181.9$
                                                                                                                                                                                                   [MFNDM231.49$
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IMFDM321.9$
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   & CICOE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             DEFLATOR INV MINING TOTAL - MACH & EQUIP
INV PRIMARY METAL INDST - MACH & EQUIP & CICOE
DEFLATOR INV PRIMARY METAL INDST - MACH & EQUIP & CICOE
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             WHOLESALE & RETAIL TRADE INDST - MACH & EQUIP COMMER SVCS INDST - MACH & EQUIP & CICOE OTHER NONCOMMER SVCS INDST - MACH & EQUIP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             INV TRANSPORT EQUIP INDST - MACH & EQUIP & CICOE
                                                                                                                                                                                                                                                                      PRINT, PUBLISH & ALLIED INDST - M&E & CICOE
PET & COAL PROD INDST - M&E & CICOE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  BUS MACH & EQUIP - CONST DIVISION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      DEFLATOR INV MANUF NONDUR TOTAL - M&E & CICOE
                NON METAL MINING PROD INDST - M&E & CICOE
FOOD & BEVERAGE INDST - M&E & CICOE
                                                                                                             RUBBER & PLASTIC PROD INDST - M&E & CICOE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     UTILITY INDST - MACH & EQUIP & CICOE
                                                                                                                                                                                                                                                                                                                                        CHEM & CHEM PROD INDST - M&E & CICOE
MISC MANUF INDST - M&E & CICOE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            & EQUIP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 FIN INS & REAL ESTATE INDST - M & E
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         DEFLATOR INV MANUF TOTAL - M&E & CICOE
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   BUS MACH & EQUIP - CONST DIVISION
                                                                                                                                                                                                                                                                                                                                                                                                                                            TRANSPORT INDST - M&E & CICOE
COMMUNICATION INDST - M&E & CICOE
                                                                                                                                                                                                          KNITTING & CLOTHING INDST - M & E
                                                                                                                                                                                                                                                                                                                                                                                                    CONSTRUCTION INDST - M&E & CICOE
                                                                                  TOBACCO PROD INDST - M&E & CICOE
                                                                                                                                                                                                                                           PAPER & ALLIED INDST - M & E
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      USED ASSETS - MACH
& EQUIP - NA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     MINING TOTAL - MACH & EQUIP
                                                                                                                                                  LEATHER INDST - M&E & CICOE
TEXTILE INDST - M&E & CICOE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     DEFLATOR INV BUS MACH & EQUIP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           INV MANUF TOTAL - M&E & CICOE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        DEFLATOR INV
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      INV SALES OF
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 INV BUS MACH
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          N/
                                                     INV CHANCE CONTRACTOR CONTRACTOR
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Equation No.: 1239

Name: Deflator, Investment, Agriculture, Fishing, and Trapping

Industries -- Machinery and Equipment

Mnemonic: PFIAGFTM Period: 1958-74

PFIAGFTM - PF41

= **-** .098369 (1.56)

+ 1.14178 (PFIAGFTM(-1) - PF41(-1)) (5.21)

- .67637 (PFIAGFTM(-2) - PF41(-2)) (2.99)

+ .0011695 TIME (1.35)

 $\overline{R}^2 = .714$ SEE =

SEE = .0118 D.W. = 1.919

Name: Deflator, Investment, Forestry Industry -- Machinery and

Equipment

Mnemonic: PFIFSTYM31.9 Period: 1958-74

PFIFSTYM31.9 - PF42

= + .035161 (2.52)

(3.48)

(0.76)

+ 1.22207 (PFIFSTYM31.9(-1) - PF42(-1)) (7.14)

- .73498 (PFIFSTYM31.9(-2) - PF42(-2))

+ .0088362 PFDUM6170

- .020437 PFDUM6670 (1.81)

- .042566 PFDUM7174 (2.68)

 $R^2 = .915$ SEE = .0152 D.W. = 2.221

Equation No.: 1241

Name: Deflator, Investment, Coal Mining Industry -- Machinery and

Equipment and CICOE

Mnemonic: PFIMICLM61 Period: 1958-74

PFIMICLM61 - PF43

= - .0047071

(0.33)

+ .85706 (PFIMICLM61(-1) - PF43(-1))

(3.75)

- .082450 (PFIMICLM61(-2) - PF43(-2))

(0.34)

+ .022664 PFDUM6170

(1.68)

- .015317 PFDUM6670

(1.20)

- .018206 PFDUM7174

(1.08)

 $R^2 = .881$ SEE = .0136 D.W. = 2.138

Name: Deflator, Investment, Crude Petroleum, Natural Gas and Services

Incidental to Mining Industry -- Machinery and Equipment

Mnemonic: PFIMIPM64+96.9 Period: 1958-74

PFIMIPM64+96.9 - PF43

= - .015697 (2.94)

+ 1.13235 (PFIMIPM64+96.9(-1) - PF43(-1)) (5.44)

- .46284 (PFIMIPM64+96.9(-2) - PF43(-2)) (2.76)

+ .024725 PFDUM6170 (3.21)

 $\overline{R}^2 = .917$ SEE = .0116 D.W. = 2.130

Equation No.: 1243

Name: Deflator, Investment, Metal Mining Industry -- Machinery and

Equipment

Mnemonic: PFIMIMMM51.9 Period: 1958-74

PFIMIMMM51.9 - PF43

= + .010364 (0.90)

+ 1.00453 (PFIMIMMM51.9(-1) - PF43(-1))

(5.51)

- .047571 (PFIMIMMM51.9(-2) - PF43(-2))

(0.22)

+ .010108 PFDUM6170

(0.99)

- .027214 PFDUM6670

(2.55)

- .032125 PFDUM7174

(2.32)

 $\overline{R}^2 = .940$ SEE = .0099 D.W. = 1.745

Name: Deflator, Investment, Nonmetal Mining Industry (Excluding

Coal) -- Machinery and Equipment

Mnemonic: PFIMINMM71.87 Period: 1957-74

(PFIMINMM71.87 - PF43) - (PFIMINMM71.87(-1) - PF43(-1))

= + .017376 (5.30)

- .026551 PFDUM6670

(4.84)

- .039550 PFDUM7174

(6.69)

 $\bar{R}^2 = .748$

SEE = .0098

D.W. = 1.993

Equation No.: 1245

Name: Deflator, Investment, Wood Industry -- Machinery and Equipment

and CICOE

Mnemonic: PFIMFDM251.9 Period: 1957-74

PFIMFDM251.9 - PF50

= - .23273 (2.60)

+ .37276 (PFIMFDM251.9(-1) - PF50(-1))

(1.59)

+ .0031590 TIME

(2.59)

 $\overline{R}^2 = .739$ SEE = .0152

D.W. = 1.776

Name: Deflator, Investment, Furniture and Fixtures Industry --

Machinery and Equipment and CICOE

Mnemonic: PFIMFDM261.8 Period: 1959-74

PFIMFDM261.8 - PF51

(1,3,NONE)

$$\overline{R}^2 = .469$$
 SEE = .0145 D.W. = 2.004

Equation No.: 1247

Name: Deflator, Investment, Iron and Steel Industry -- Machinery and

Equipment and CICOE

Mnemonic: PFIMFDM291.4 Period: 1958-74

PFIMFDM291.4 - PF54

= - .23434 (2.75)

+ .83086 (PFIMFDM291.4(-1) - PF54(-1))

(3.01)

-.53901 (PFIMFDM291.4(-2) - PF54(-2))

(1.98)

+ .0032829 TIME

(2.78)

 $\overline{R}^2 = .863$ SEE = .0092 D.W. = 1.634

Name: Deflator, Investment, Nonferrous Metal Industry -- Machinery and

Equipment

Mnemonic: PFIMFDM295.8 Period: 1959-74

PFIMFDM295.8 - PF54

= - .23694 (2.62)

+ .76235 (PFIMFDM295.8(-1) - PF54(-1))

(2.71)

- .47571 (PFIMFDM295.8(-2) - PF54(-2))

(1.70)

+ .0033235 TIME

(2.66)

 $R^2 = .853$ SEE = .0096 D.W. = 1.747

Equation No.: 1249

Name: Deflator, Investment, Metal Fabricating Industry -- Machinery

and Equipment and CICOE

Mnemonic: PFIMFDM301.9 Period: 1958-74

PFIMFDM301.9 / PF55

= + .178496 (2.10)

+ .937208

(PFIMFDM301.9(-1) / PF55(-1))

(3.32)

- .54793

(PFIMFDM301.9(-2) / PF55(-2))

(1.87)

+ .0061834

TIME

(2.63)

 $\bar{R}^2 = .918$

SEE = .0148

D.W. = 1.755

Equation No.: 1250

Name: Deflator, Investment, Machinery (Excluding Electrical Machinery)

Industry -- Machinery and Equipment and CICOE

Mnemonic: PFIMFDM311.8

Period: 1958-74

PFIMFDM311.8 / PF56

$$\frac{1}{R^2} = .927$$
 SEE = .0165 D.W. = 1.720

Equation No.: 1251

Name: Deflator, Investment, Nonauto Transport Equipment -- Machinery

and Equipment and CICOE

Mnemonic: PFIMFDM321+26.9 Period: 1958-74

PFIMFDM321+26.9 / PF57

= + .092760 (1.37)

+ 1.11772 (PFIMFDM321+26.9(-1) / PF57(-1))

(4.26)

- .61369 (PFIMFDM321+26.9(-2) / PF57(-2))

(2.28)

+ .0057985 TIME

(2.56)

 $\overline{R}^2 = .923$ SEE = .0164 D.W. = 1.728

Name: Deflator, Investment, Motor Vehicles Industry (Excluding Parts

and Accessories) -- Machinery and Equipment and CICOE

Mnemonic: PFIMFDM323.4 Period: 1958-74

PFIMFDM323.4 / PF57

= + .074610 (1.28)

+ 1.22000 (PFIMFDM323.4(-1) / PF57(-1))

(4.87)

- .71040 (PFIMFDM323.4(-2) / PF57(-2))

(2.72)

+ .0059729 TIME

(2.80)

 $R^2 = .943$ SEE = .0145

D.W. = 1.401

Name: Deflator, Investment, Motor Vehicle Parts and Accesories

Industry -- Machinery and Equipment and CICOE

Mnemonic: PFIMFDM325 Period: 1958-74

PFIMFDM325 - PF57

= - .49972 (3.10)

+ .99924 (PFIMFDM325(-1) - PF57(-1))

(3.45)

-.75303 (PFIMFDM325(-2) - PF57(-2))

(2.56)

+ .0071638 TIME

(3.15)

 $\overline{R}^2 = .900$ SEE = .0157 D.W. = 1.509

Name: Deflator, Investment, Electrical Products Industry --

Machinery and Equipment and CICOE

Mnemonic: PFIMFDM331.9 Period: 1958-74

PFIMFDM331.9 - PF58

= - .31550 (3.17)

+ .99167 (PFIMFDM331.9(-1) - PF58(-1))

(4.19)

- .68317 (PFIMFDM331.9(-2) - PF58(-2))

(2.85)

+ .0044455 TIME

(3.20)

 $R^2 = .889$ SEE = .0118 D.W. = 1.605

Name: Deflator, Investment, Nonmetal Mining Products Industry --

Machinery and Equipment and CICOE

Mnemonic: PFIMFDM351.9 Period: 1958-74

PFIMFDM351.9 - PF59

= - .29464 (3.11)

+ 1.05280 (PFIMFDM351.9(-1) - PF59(-1))

(4.42)

- .70713 (PFIMFDM351.9(-2) - PF59(-2))

(2.95)

+ .0041791 TIME

(3.14)

 $R^2 = .886$ SEE = .0119 D.W. = 1.595

Name: Deflator, Investment, Food and Beverages Industry --

Machinery and Equipment and CICOE

Mnemonic: PFIMFNDM101.9 Period: 1958-74

PFIMFNDM101.9 - PF44

= - .31074 (3.47)

+ 1.06801 (PFIMFNDM101.9(-1) - PF44(-1))

(4.96)

- .76009 (PFIMFNDM101.9(-2) - PF44(-2))

(3.49)

+ .0044021 TIME

(3.47)

 $R^2 = .862$ SEE = .0137 D.W. = 1.483

Equation No.: 1257

Name: Deflator, Investment, Tobacco Products Industry --

Machinery and Equipment and CICOE

Mnemonic: PFIMFNDM151.3 Period: 1958-74

PFIMFNDM151.3 - PF45

= -.26072 (2.80)

+ .91228 (PFIMFNDM151.3(-1) - PF45(-1))

(3.81)

- .58429 (PFIMFNDM151.3(-2) - PF45(-2))

(2.44)

+ .0036709 TIME

(2.82)

 $R^2 = .844$ SEE = .0125 D.W. = 1.963

Name: Deflator, Investment, Rubber and Plastic Products
Industry -- Machinery and Equipment and CICOE

Mnemonic: PFIMFNDM162.5 Period: 1958-74

PFIMFNDM162.5 - PF46

$$= -.32602$$
 (3.05)

(3.46)

$$-.66290$$
 (PFIMFNDM162.5(-2) - PF46(-2))

(2.55)

(3.09)

$$R^2 = .871$$
 SEE = .0121 D.W. = 1.612

Name: Deflator, Investment, Leather Industry -- Machinery

and Equipment and CICOE

Mnemonic: PFIMFNDM172.9 Period: 1958-74

PFIMFNDM172.9 - PF47

= - .26256 (2.84)

+ .60894 (PFIMFNDM172.9(-1) - PF47(-1))

(2.11)

- .47946 (PFIMFNDM172.9(-2) - PF47(-2))

(1.67)

+ .0036880 TIME

(2.87)

 $\overline{R}^2 = .773$ SEE = .0113 D.W. = 1.839

Name: Deflator, Investment, Textile Industry -- Machinery

and Equipment and CICOE

Mnemonic: PFIMFNDM181.9 Period: 1958-74

PFIMFNDM181.9 - PF48

$$= -.02785$$
 (1.36)

+ .87528 (PFIMFNDM181.9(-1) - PF48(-1))

(3.76)

- .23021 (PFIMFNDM181.9(-2) - PF48(-2))

(1.45)

+ .025574 PFDUM6170

(1.35)

+ .033753 PFDUM7174

(1.51)

 $\frac{-2}{R^2} = .953$ SEE = .0116 D.W. = 2.453

Equation No.: 1261

Name: Deflator, Investment, Knitting and Clothing Industry --

Machinery and Equipment and CICOE

Mnemonic: PFIMFNDM231.49 Period: 1958-74

PFIMFNDM231.49 - PF49

= + .0048306 (1.54)

> + 1.19392 (PFIMFNDM231.49(-1) - PF49(-1)) (6.89)

> - .45779 (PFIMFNDM231.49(-2) - PF49(-2)) (2.71)

 $R^2 = .856$ SEE = .0126 D.W. = 2.582

Equation No.: 1262

Name: Deflator, Investment, Paper and Allied Industry -Machinery and Equipment and CICOE

Mnemonic: PFIMFNDM271.4 Period: 1958-74

PFIMFNDM271.4 - PF52

$$\frac{1}{R^2} = .737$$
 SEE = .0133 D.W. = 1.759

D.W. = 1.785

Equation No .: 1263

Name: Deflator, Investment, Printing, Publishing, and Allied

Industry -- Machinery and Equipment and CICOE

Mnemonic: PFIMFNDM286.9 Period: 1958-74

PFIMFNDM286.9 - PF53

$$R^2 = .700$$
 SEE = .0230

Equation No:: 1264

Name: Deflator, Investment, Petroleum and Coal Products Industry --

Machinery and Equipment and CICOE

Mnemonic: PFIMFNDM365.9 Period: 1958-74

PFIMFNDM365.9 - PF60

= - .23954 (2.57)

+ 1.11986 (PFIMFNDM365.9(-1) - PF60(-1))

(4.78)

- .64850 (PFIMFNDM365.9(-2) - PF60(-2))

(2.75)

+ .0034603 TIME

(2.59)

 $R^2 = .854$ SEE = .014 D.W. = 1.619

Equation No.: 1265

Name: Deflator, Investment, Chemical and Chemical Products Industry --

Machinery and Equipment and CICOE

Mnemonic: PFIMFNDM372.9 Period: 1958-74

PFIMFNDM372.9 - PF61

= - .016409 (2.85)

+ 1.22700 (PFIMFNDM372.9(-1) - PF61(-1)) (5.85)

- .58354 (PFIMFNDM372.9(-2) - PF61(-2))

(2.95)

+ .015717 PFDUM6170 (2.43)

 $\bar{R}^2 = .812$

SEE = .0119

D.W. = 2.164

Period: 1958-74

Equation No.: 1266

Name: Deflator, Investment, Miscellaneous Manufacturing Industry --

Machinery and Equipment and CICOE

Mnemonic: PFIMFNDM391.9

PFIMFNDM391.9 - PF62

$$=$$
 - .37517 (3.11)

(3.69)

$$-.65981$$
 (PFIMFNDM391.9(-2) - PF62(-2))

(2.64)

(3.15)

$$\overline{R}^2 = .864$$
 SEE = .015 D.W. = 1.728

Equation No.: 1267

Name: Deflator, Investment, Construction Industry --

Machinery and Equipment

Mnemonic: PFICNSTM Period: 1958-74

PFICNSTM - PF63

= - .0069649 (1.88)

+ 1.35911 (PFICNSTM(-1) - PF63(-1))

(6.93)

- .57709 (PFICNSTM(-2) - PF63(-2))

(3.23)

 $R^2 = .884$ SEE = .0102 D.W. = 1.850

Equation No.: 1268

Name: Deflator, Investment, Transport Industry --

Machinery and Equipment and CICOE

Mnemonic: PFITRSPM501.27 Period: 1958-74

PFITRSPM501.27 / PF65

= + .46994 (3.24)

+ .93398 (PFITRSPM501.27(-1) / PF65(-1))

(4.09)

- .41238 (PFITRSPM501.27(-2) / PF65(-2))

(2.00)

 $R^2 = .536$ SEE = .0104 D.W. = 1.940

Equation No.: 1269

Name: Deflator, Investment, Communication Industry --

Machinery and Equipment

Mnemonic: PFICOMMM543.8 Period: 1957-74

PFICOMMM543.8 - PF66

= - .0097539

(1.78)

+ .74121 (PFICOMMM543.8(-1) - PF66(-1))

(6.05)

- .011878 PFDUM6170

(1.50)

+ .027701 PFDUM6670

(3.39)

 $\overline{R}^2 = .799$ SEE = .0124 D.W. = 2.279

Equation No.: 1270

Name: Deflator, Investment, Financial, Insurance and Real Estate

Industry -- Machinery and Equipment

Mnemonic: PFIFIREM701.37 Period: 1958-74

PFIFIREM701.37 - PF68

= + .076549 (1.32)

> + 1.27847 (PFIFIRE701.37(-1) - PF68(-1)) (4.64)

> - .90453 (PFIFIRE701.37(-2) - PF68(-2)) (3.23)

- .0013368 TIME (1.52)

 $R^2 = .554$ SEE = .0173 D.W. = 1.343

Equation No.: 1271

Name: Deflator, Investment, Utility Industry -- Machinery

and Equipment and CICOE

Mnemonic: PFIUTILM572.9 Period: 1959-74

PFIUTILM572.9 - PF64

= + .043325
(2.29)

- .082062 PFDUM6170 (3.17)

+ sum(i=1,3)b(-i) (PFIUTILM572.9(-i) - PF64(-i))

i b(i) t(i)

1 +.0037487 (0.016)

2 +.13149 (2.50) 3 +.25924 (1.50)

sum +.39448 (2.50)

(1,3,NONE)

 $R^2 = .630$ SEE = .0431

D.W. = 1.574

Equation No.: 1272

Name: Deflator, Investment, Wholesale and Retail Trade Industry --

Machinery and Equipment and CICOE

Mnemonic: PFITRADM602.99 Period: 1958-74

PFITRADM602.99 / PF67

= + .64169
(2.70)

+ .87196 (PFITRADM602.99(-1) / PF67(-1))

(3.29)

- .52239 (PFITRADM602.99(-2) / PF67(-2))

(1.92)

- .020782 PFDUM6170

(2.07)

+ .015167 PFDUM6670

(2.03)

 $R^2 = .693$ SEE = .0112 D.W. = 1.660

Equation No: 1273

Name: Deflator, Investment, Commercial Services Industry --

Machinery and Equipment

Mnemonic: PFISVCMM Period: 1958-74

PFISVCMM - PF69

= + .15601 (1.28)

> + 1.07301 (PFISVCMM(-1) - PF69(-1)) (4.29)

> - .38217 (PFISVCMM(-2) - PF69(-2)) (1.44)

- .0023245 TIME (1.31)

 $\overline{R}^2 = .877$ SEE = .017 D.W. = 2.040

Equation No.: 1274

Name: Deflator, Investment, Other Noncommercial Services Industry --

Machinery and Equipment

Mnemonic: PFISVNCM Period: 1957-74

PFISVNCM - PF69

= + .026406 (2.54)

+ .46056 (PFISVNCM(-1) - PF69(-1))

(3.04)

- .036785 PFDUM6170

(3.02)

- .022728 PFDUM7174

(1.84)

 $\overline{R}^2 = .783$ SEE = .0144 D.W. = 2.180

Equation No.: 1275

Name: Deflator, Investment, College and University Education --

Machinery and Equipment

Mnemonic: PFISVHGEDM806 Period: 1958-74

PFISVHGEDM806 - PF70

= + .20615 (2.59)

+ .55178 (PFISVHGEDM806(-1) - PF70(-1))

(1.96)

- .42579 (PFISVHGEDM806(-2) - PF70(-2))

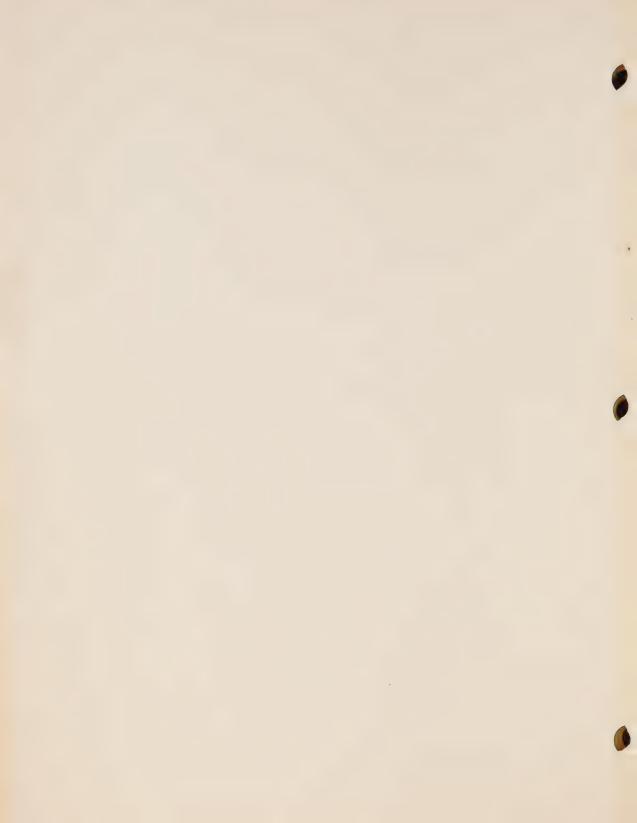
(1.49)

- .0030782 TIME

(2.63)

 $\overline{R}^2 = .619$ SEE = .013 D.W. = 1.997





FINAL DEMAND DEFLATORS
BUSINESS FIXED INVESTMENT RESIDENTIAL

contains demand functions for singles, multiples, real estate commissions, mobile homes, cottages, and other construction expenditures. However, all these components have only one common final demand price deflator. The National Accounts data currently provide different deflators for each one of these categories, but do not provide separate deflators by type of construction for the period prior to 1970. In consequence, we have used a single common deflator which, like others in the final demand price block, is related to the pseudo final demand construction deflator through regression techniques. Once estimates of this deflator are calculated, price times quantity identities can be used to develop an estimate of the National Accounts total for residential construction in current prices.

VARIABLES DETERMINED OUTSIDE THE BUSINESS FIXED INVESTMENT RESIDENTIAL PRICE BLOCK

XPND - FIXED - FIXED S FIXED S NONR NTIAL NTIAL		GOUT EXPND - INVST TOTAL CAPITAL FORMATION GE.INV.CAPF\$	30VT EXPND - INVST RESIDENTIAL GE-INV.RES\$	SROSS FIXED CAPITAL FORMATION - TOTAL	GROSS FIXED CAPITAL FORMATION - BUSINESS GFC.B	INV BUS NONRES CONST, NATIONAL ACCOUNTS IBNACO\$	INV BUS MACH & EQUIP - NATIONAL ACCOUNTS IBNAMS	RESIDENTIAL CONST INVST - COTTAGES	RESIDENTIAL CONST INVST - MOBILE HOMES RCIMBL	RESIDENTIAL CONST INVST - MULTIPLES	RESIDENTIAL CONST INVST - OTHER RCIOTH	RESIDENTIAL CONST INVST - REAL ESTATE COMMISSIONS RCIREC	
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VARIABLES EXOGENOUS TO THE BUSINESS FIXED INVESTMENT RESIDENTIAL PRICE BLOCK

RCIGD\$	RCINAB.RD\$
	ERROR
	NA RNDNG
	NA
GOVT, DEFENCE	BUSINESS, TOTAL
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RESIDENTIAL	RESIDENTIAL

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MENT RESIDENTIAL PRICE BLOCK (BOTH BEHAVIOUR	
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ABLES ENDOGEN	
VARIA	

m	= PFRCINAB * RCICTG	= PFRCINAB * RCIMBL	= PFRCINAB * RCIREC	= PFRCINAB * RCIOTH	= PFRCINAB * RCIMLT	= PFRCINAB * RCISGLE	= RCISGLE\$ + RCIMLT\$ + RCIOTH\$ + RCIREC\$ + RCIMBL\$	+ RCICTG\$ - GE.INV.RES\$ - RCIGD\$ + RCINAB.RD\$	= RCINAB\$ + IBNACO\$ + IBNAM\$	= GFC.B\$ / GFC.B	= GFC.B\$ + GE.INV.CAPF\$	= GFC\$ / GFC
PFRCINAB	RCICTG\$	RCIMBL\$	RCIREC\$	RCIOTH\$	RCIMLT\$	RCISGLES	RCINABS		GFC.B\$	PFGFC.B	GFC\$	PFGFC
DEFLATOR RESIDENTIAL CONST. INVST - BUS TOTAL NA	RESIDENTIAL CONST INVST - COTTAGES	RESIDENTIAL CONST INVST - MOBILE HOMES		RESIDENTIAL CONST INVST - OTHER	RESIDENTIAL CONST INVST - MULTIPLES	RESIDENTIAL CONST INVST - SINGLES	RESIDENTIAL CONST INVST - BUS, TOTAL NA		GROSS FIXED CAPITAL FORMATION - BUSINESS	DEFLATOR - INV BUSINESS	GROSS FIXED CAPITAL FORMATION - TOTAL	DEFLATOR INV EXPND - TOTAL

Equation No.: 1358

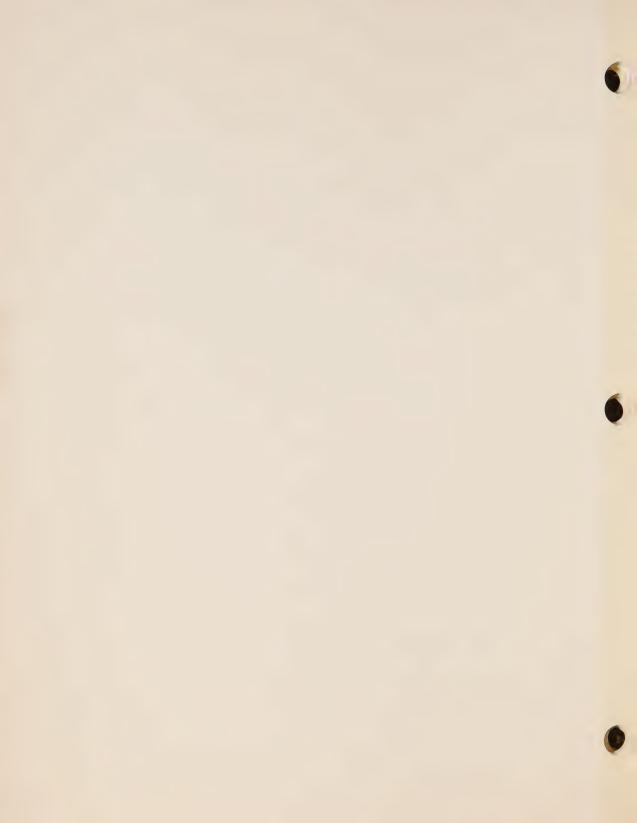
Name: Deflator, Residential Construction Investment -- Business

Mnemonic: PFRCINAB Period: 1957-74

((PFRCINAB - PFRCINAB(-1)) / PFRCINAB(-1)) * 100

= + 1.05023 (((PF75 - PF75(-1)) / PF75(-1)) * 100) (11.81)

 $R^2 = 0.797$ SEE = 2.366 D. W. = 1.718



FINAL DEMAND DEFLATORS

For inventories the final demand price converter provides two deflators. One is associated with raw materials and the other associated with finished goods. These pseudo deflators are used as the explanatory variables in stochastic equations to explain movements in the raw materials and finished goods inventory stock prices. Given these two deflators, an estimate of the current dollar value of inventory stock is obtained.

In using the current dollar value of the stock to derive estimates of current dollar inventory change, we must account for the inventory valuation adjustment (the change in the value of current dollar inventory stock associated with price movements). Using the inventory valuation adjustment series from National Accounts and beginning period inventory stock estimates, we derive a deflator implied by the movements of the inventory valuation adjustment. This derived deflator is regressed on the nonagricultural inventory stock deflator (the right hand side variable is a weighted average of the finished goods and raw materials prices mentioned previously). The inventory valuation adjustment is then influenced by the initial stock (real terms) and the change in this derived deflator.

In running simulations with CANDIDE Model 2.0 one should be aware of the impact that changes in various indirect taxes have on the inventory valuation adjustment. The impact is made clear by indicating the differential effect that occurs when we compare a manufacturers' sales tax cut with a provincial sales tax cut. The manufacturers' sales tax is levied at an intermediate stage of production. It is levied on the prices associated with total commodity supply. The provincial sales tax is levied at the final demand level. This is the last step in price conversion. Furthermore it is only levied if a good passes into the hands of a consumer. Consequently changes in provincial sales tax rates should not affect the inventory valuation adjustment. However, changes in the manufacturers' sales tax rates should affect the inventory valuation adjustment. In CANDIDE Model 2.0, this is the case. If manufacturers' sales taxes are cut, there is a substantial movement in the inventory valuation adjustment. This is because the deflators associated with inventory stocks (raw materials and finished goods) are tied using regression techniques to the pseudo deflators available from price conversion, and not to final demand deflators associated with consumption, investment, et cetera.

INVENTORY PRICE BLOCK

VARIABLES DETERMINED OUTSIDE THE INVENTORY PRICE BLOCK

						BLOCK	BLOCK
		LAL			4L	PRICE	PRICE
٨X		FINISHED GOODS TOTAL		URE	- RAW MATERIALS TOTAL	DUMMY VARIABLE - FINAL DEMAND PRICE BLOCK	DUMMY VARIABLE - FINAL DEMAND PRICE BLOCK
TOTAL ECONOMY	AGRICULTURE	HED GO	NMENT	NONAGRICULTURE	ATERIA	FINAL	FINAL
TOTAL	AGRIC	FINIS	GOVERNMENT	NONAG	RAW M	BLE -	BLE -
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TORY	TORY	TORY	TORY	TORY	TORY	VAR	VAR
INVENTORY -	INVENTORY	INVENTORY	INVENTORY	INVENTORY	INVENTORY	DUMMY	DUMMY

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VARIABLES EXOGENOUS TO THE INVENTORY PRICE BLOCK

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	CHANGE -	INVENTORY	DEFLATOR INVENTORY - GOVERNMENT
	INVENTORY	DEFLATOR INVENTORY - AGRICULTURE	DEFLATOR
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മമ	= PFINVRM * INVRM + PFINVFG * INVFG	= INVAG * PFINVAG	= INVAG\$ - INVAG\$(-1)	= .INVAG\$INVGICC\$	= INVGV * PFINVGV	= (INV\$ - INVGV\$ - INVAG\$) / (INV - INVGV - INVAG)	en en	= (-1) * INVNAG(-1) * (PFINVNAGREV - PFINVNAGREV(-1))	= INV - INV$(-1) + IN.VANAG$$	= INV\$ / INV
PFI NVRM PFI NVFG	İNV\$	INVAG\$. INVAG\$.INVFARMS	INVGV\$	PFINVNAG	PFINVNAGREV	IN.VANAG\$	\$ INV\$	PFINV
DEFLATOR INVENTORY - RAW MATERIALS DEFLATOR INVENTORY - FINISHED GOODS	INVENTORY - TOTAL ECONOMY	INVENTORY - AGRICULTURE	INVENTORY CHANGE - AGRICULTURE	INVENTORY CHANGE - AGRIC. (LESS GRAIN IN COMM. CHANNELS)	INVENTORY - GOVERNMENT	DEFLATOR INVENTORY - NONAGRICULTURE	DEFLATOR INVENTORY - NONAGRIC. (RE-EVAL. TO ACQUISITION)	INVENTORY VALUATION ADJUSTMENT - NONAGRICULTURE	INVENTORY CHANGE - TOTAL ECONOMY	DEFLATOR INVENTORY - TOTAL ECONOMY

Equation No.: 43

Name: Deflator, Inventory - Raw Materials Total

Mnemonic: PFINVRM Period: 1957-74

PFINVRM - PF76

= - .161194 (1.67)

> + .490217 (PFINVRM(-1) - PF76(-1)) (1.99)

+ .00217656 TIME (1.62)

 $R^2 = .727$ SEE = .015

D.W. = 1.441

Equation No.: 44

Name: Deflator, Inventory - Finished Goods

Mnemonic: PFINVFG Period: 1956-74

PFINVFG

= + 0.58983(35.29)

> + 0.43537 PF77 (26.40)

- 0.045754 PFDUM6170 (7.63)

 $R^2 = 0.980$ SEE = 0.0128 D.W. = 1.314

Equation No.: 39

Name: Deflator, Inventory - Revaluer

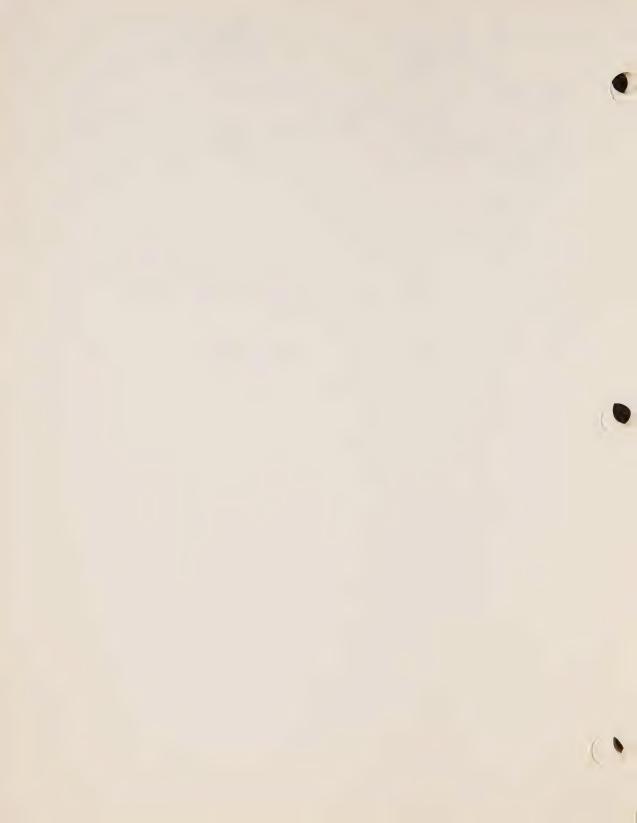
Mnemonic: PFINVNAGREV Period: 1956-74

PFINVNAGREV

= - .030516 (10.95)

+ 1.03088 PFINVNAG (341.49)

 $\overline{R}^2 = 1.000$ SEE = .0019 D.W. = 1.599







FINAL DEMAND DEFLATORS IMPORTS AND EXPORTS

In CANDIDE Model 2.0 the import and export deflators are exogenous except for exchange rate influences (the exchange rate is endogenous). The deflators are entered in equivalent U.S. dollar terms as exogenous variables. The exchange rate is used to determine the Canadian dollar equivalent. This method of introducing the exchange rate into import and export prices implies immediate and full pass through of exchange rate variations to domestic prices.

The import and export prices in the system play a number of roles. On final demand side of the model they are used in several methods in the price relatives in the import and export demand functions. In some cases, the Canadian import price, in a role as a proxy for a foreign price connected with a specific area of activity, is used relative to a Canadian export price to obtain an estimate of the substitution effect. The latter price is analogous to an industry selling price, particularly in the area of manufactured exports, and therefore is a reasonable proxy for an industry specific price. In other cases the import price is used relative to a comparable Canadian domestic price.

The export and import prices are also used in the price times quantity identities to develop nominal estimates

of the various trade flows which when tallied equal the National Accounts total. International transfers are determined by stochastic equations, and added to the National Account import and export aggregates in order to obtain the Balance of Payments totals. These are used in the Balance of Payments block to obtain the Current Account Balance.

Import prices influence price conversion. Import prices are re-weighted and assigned to industry categories which are then combined (using the <u>Use</u> and <u>Make</u> Matrices and the import content vector) with domestic prices to develop a price associated with each commodity. The average weight of import prices is 20%, with the highest weights occurring in the machinery and automobile sectors. The high import content of total supply results in some insensitivity of the final demand deflators to domestic price shocks. Simulations with CANDIDE 2.0 suggest that only two-thirds of a domestic price shock is passed through to the implicit deflators for consumption and the CPI and about one-third to the machinery and equipment deflators in the price conversion process.

Although critical in the short run, the high weight associated with import content is more critical in the long run. Since import and export prices are exogenous, one finds that equilibrium price behaviour in the long run is tied directly to the exogenous assumptions made about the path of import and export prices. In an open economy where

a large percentage of the goods consumed are imported this is not unrealistic. However, in doing alternative simulations with policy content it is important to recognize that if no adjustment is made to import prices, the alternatives may exhibit sticky final demand price behaviour. This result is important because it has a bearing on the path of the real wage. In simple terms if 20% of the weight of the CPI is tied to import prices, which under conditions of a quantity shock are left unchanged from the control, there will be a tendency for money wages to rise faster than the CPI.

This increase in the real wage can be partially attributed to the exogenous nature of import prices. The result has a bearing on the real wage and thus the multiplier properties of CANDIDE Model 2.0. It also affects the labour supply and labour demand side of the Model. Since the real wage plays an important role in determining the outcome of many other variables in CANDIDE Model 2.0 one must keep in mind the exogenous nature of import and export prices when examining policy alternatives.

VARIABLES DETERMINED OUTSIDE THE IMPORTS PRICE BLOCK

DPOP GEF.TNR.OCONTS GEF.TNR.PENS GRF.DT.NRS PFYCAN	TMAGRESW TMAGRW TMAIRCW TMAIRCW TMALBVW TMAPHTW TMSEMAW	TMCOALW TMCAMEW TMFUPTW TMFUPTW TMG+SNAW TMG+SNAW TMGW TMIRASW TMIRASW	TMMAFAW TMMCPROCW TMMCPROCW TMMEQTW TMMFRW TMMFRW TMMTRVEHW TMMTRVEHW TMNORW TMNONCW TMNONCW	TMRETRW TMSETRW TMSIN+MIPYW TMSIN+MIPYW TMSOTHSERW TMSOTHSERW TMSTRAVELW TMST
Q ₄	EXCHANGE RATE IN SCAN PER UNIT OF SUS IMPORTS RESIDUAL AGRICULTURAL PRODUCTS - WORLD IMPORTS AGRICULTURAL PRODUCTS - WORLD IMPORTS AIRCRAFT & PARTS - WORLD IMPORTS ALCOHOLIC BEVERAGES - WORLD IMPORTS ALCHOLIC BOUSEHOLD GOODS - WORLD IMPORTS BUSINESS MACHINERY - WORLD IMPORTS CHEMICALS & PROD - WORLD	IMPORTS COAL - WORLD IMPORTS CRUDE MATERIALS - WORLD IMPORTS DAIRY MEAT FISH PROD - WORLD IMPORTS OTHER FUELS & PROD - WORLD IMPORTS FRUITS & VEGETABLES - WORLD IMPORTS FRUITS & VEGETABLES - WORLD IMPORTS TOTAL GOODS - WORLD IMPORTS INDUSTRIAL MACHINERY - WORLD	MACHIN MASSC P MISC E METALS HIGHLY MOTOR NONCER	IMPORTS CRUDE PETROLEGN — WORLD IMPORTS RESIDUAL TRANSPORT EQUIP — WORLD IMPORTS RESIDUAL TRANSPORT EQUIP — WORLD IMPORTS SERVICE PYMTS — FREIGHT & SHIPPING — WORLD IMPORTS SERVICE PYMTS — INCOME PYMTS (EX NONRES) — WORLD IMPORTS SERVICE PYMTS — OTHER SERVICES — WORLD IMPORTS SERVICE PYMTS — TRANSACTIONS — WORLD IMPORTS SERVICE PYMTS — TRANSACTIONS — WORLD IMPORTS SERVICE PYMTS — TARANSACTIONS — WORLD IMPORTS SERVICE PYMTS — TOTAL (NA CONCEPT) — WORLD IMPORTS TRANSPORTATION EQUIP — WORLD IMPORTS TRANSPORTATION EQUIPMENT — WORLD IMPORTS PROCESSED WOOD PROD — WORLD DIVIDENDS PAID TO NON-RESIDENTS US — TOTAL POP INCL ARMED FORCES OVERSEAS (JULY 1) US — DISPOSABLE PERSONAL INCOME

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PTM.US.MTRVPRTW
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                           PTM.US.APHTW
                                        PTM.US.BZMAW
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IMPORTS RESIDUAL MERCHANDISE ADJUSTMENT - WORLD
RESIDUAL AGRICULTURAL PROD - WORLD
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- MISC MANUFACTURED GOODS - WORLD
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              - ALCOHOLIC BEVERAGES - WORLD
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                                                          - CHEMICALS - WORLD
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VARIABLES EXOGENOUS TO THE IMPORTS PRICE BLOCK

TMMAFAWS + TMINMAW\$ + TMBZMAW\$

/ TMMACHW

TMMACHWS

TMBZMAW * PTM.CA.BZMAW

PTM.US.BZMAW * REXCAN

PTM.CA.BZMAW

TMBZMAWS

IMMTRVPARTSW * PIM.CA.MIRVPRIW

TMAIRCW * PTM.CA.RETRW

PTM.US.RETRW * REXCAN

TMMTRVEHW * PTM.CA.MTRVEHW

PTM.US.MTRVEHW * REXCAN

PTM.US.MTRVPRTW * REXCAN

PIM.CA.MTRVPRIW

TMMTRVEHW\$

THMTRVPARTSWS

PTM.CA.RETRW

IMPORT PRICE - RESIDUAL TRANSPORT EQUIP - WORLD

IMPORTS AIRCRAFT & PARTS - WORLD

MPORT PRICE - MOTOR VEHICLE PARTS - WORLD

MPORTS MOTOR VEHICLES - WORLD

MPORTS MOTOR VEHICLE PARTS - WORLD

MPORT PRICE - MACHINERY - WORLD MPORT PRICE - MOTOR VEHICLES - WORLD

MPORT PRICE - BUSINESS MACHINERY - WORLD

MPORTS MACHINERY - WORLD

TMAIRCWS

PTM.CA.MTRVEHW

PTM.CA. MACHW

TMRETRW\$ = TMTRANSPW\$ = PTM.CA.TRANSPW = COMM.CA.TRANSPW	IONS EQUIP - WORLD PTM.CA.TALKW = PTM.US.TALKW * REXCAN UIP - WORLD TMTALKW\$ = TMTALKW * PTM.CA.TALKW & TOOLS - WORLD PTM.CA.MEQTW = FTM.US.MEQTW * REXCAN TMMFORM * PTM.CA.MEQTW	- WORLD PIMED = TWADHTW = TWADHTWS =	EQUIP - WORLD PTM.CA.MPERW =	IP - WORLD TYMPERW\$ = TYMPERW * PTM.CA.MPERW ODS PTM.CA.MCMPRW = PTM.US.MCMFRW * REXCAN	TEMMCMFRW\$ = TMMPRW\$ =	TIMPORT PRICE - HIGHLY MANUFACTURED GOODS - WORLD PIM.CA.MFRW = IMMFRW\$ / IMMFRW		+ TMMFRW\$ + TMSPECW\$	PTM.CA.GW ==	D PTM.CA.FRSHW =	- WORLD TMSFRSHW\$ ==	WORLD PTM.CA.TRVLW = PTM.US.TRVLW * REXCAN TMSTRAVELW * PTM.CA.TRVLW	TWSDIVPYWS	PIM.CA.INPYW =	- WORLD TMSIN+MIPYWS =	TWSINCPYWS	FIM.CA.CERVW =	= LINGMS =	PTM.CA.SW =	TMG+SNAW\$	PTM.CA.G+SW	PERS REMITT LESS PEN PYMTS - WORLD TMSPRM-PPYWS B TMSPRM-PPYW\$ + GEF.TNR.PEN\$	FNDS - WORLD TMSIMFDW\$ B	THE THE STATE OF THE
IMPORTS RESIDUAL TRANSPORT EQUIP - WORLD IMPORTS TRANSPORTATION EQUIP - WORLD IMPORT PRICE - TRANSPORT EQUIPMENT -	5 0 0	IMPORTS MISC EQUIPMENT & TOOLS - WORLD IMPORT PRICE - APPAREL & HHOLD GOODS -	IMPORTS APPAREL & HHOLD GOODS - WOKLD IMPORT PRICE - MISC PERSONAL & HHOLD EQUIP -	IMPORTS MISC PERSONAL & HHOLD EQUIP - WORLD	IMPORTS MISC MANUFACTURED GOODS - WORLD IMPORTS HIGHLY MANUFACTURED GOODS - WORLD	IGHLY MANUFACTU	IMPORTS SPECIAL TRANSACTIONS - WORLD	IMPORTS TOTAL GOODS - WORLD	TANDON - MERCHANDISE GOODS - WORLD	IMPORT PRICE - FREIGHT & SHIPPI		IMPORT PRICE - TRAVEL PAYMENTS - WORLD	IMPORTS SERVICE FIMIS - INAVEL - WONED IMPORTS SERVICE PYMTS - DIVIDENDS - WORLD	IMPORT PRICE - INCOME PAYMENTS - WORLD	IMPORTS SERVICE PYMTS - INTEREST & MISC INCOME	IMPORTS SERVICE PYMTS - INCOME PYMTS - WORLD	IMPORT PRICE - OTHER SERVICE PAYMENTS - WORLD	IMPORTS SERVICE FIRES - CIRER SERVICES - MONES	IMPORT PRICE - SERVICE PAYMENTS - WORLD	IMPORTS GOODS & SERVICES - NA E	GOODS & SERVICES	IMPORTS SERVICE PYMTS - PERS RE	-	

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Equation No.: 1565

Name: Imports, Service Payments -- Dividends -- World

Mnemonic: TMSDIVPYW\$ Period: 1958-75

ln(TMSDIVPYW\$)

= - .11606 (1.21)

+ .99230 ln(Y.DIVPNR\$) (69.65)

 $R^2 = .997$ SEE = .022 D.W. = .860

Equation No.: 1576

Name: Imports, Service Payments -- Personal Remittances (Excluding

Nonresidential Pension Payments)

Mnemonic: TMSPRM-PPYW\$ Period: 1956-75

TMSPRM-PPYW\$

$$+ sum(i=1,5)b(i) PDY$(-i)$$

i	b(i)	t(i)	c(i)	t(i)
0 1 2 3 4 5	+.00022800 +.00045600 +.00068401 +.00091201 +.0011400	(21.23) (21.23) (21.23) (21.23) (21.23)	-52.82980 -35.21990 -17.60990	(2.14) (2.14) (2.14)
sum	+.0034200 (1,5,NEAR)	(21.23)	-105.66000 (1,3,FAR)	(2.14

 $\overline{R}^2 = .967$ SEE = 9.178 D.W. = 2.162

Equation No.: 1577

Name: Imports, Service Payments -- Inheritances and Migrants' Funds

Mnemonic: TMSIMFDW\$ Period: 1959-75

TMSIMFDW\$

(1,3,NEAR)

$$R^2 = 0.856$$
 SEE = 6.960 D.W. = 2.147 RHO = -.117

VARIABLES DETERMINED OUTSIDE THE EXPORTS PRICE BLOCK

	DISTILL
REVEN	GRF.DT.NR\$
DEFLATOR CONS EXPND - TOTAL SHE	REXCAN
EXPORTS AGRICULTURAL COMMODITIES - WORLD	TEAGRW
ALCOHOLIC BEVERAGES & TOBACCO -	TEALCO+TOBW
	TECHEMW
EXPORTS COAL - WORLD	TEELECMEW
ELECTRICAL POWER - WORLD	TEELPOW
FABRICATED METAL F	TEFABRMTLW
	TEFOODW
EXPORTS TOTAL FOURS - WORLD EXPORTS FORESTRY - WORLD	TEFORESTRYW
	TEFUPTW
FURNITURE - WORLD	TEFURNA
EXPORTS TOTAL GOODS & SERVICES - NA BASIS - WORLD EXPORTS TOTAL CDAINS - WORLD	TEGRAINSW
TOTAL GOODS -	TEGW
TOTAL	TEIRASW
•	TEMPEN
EXPORTS AGRICULTURAL MACHINERY - WORLD	TEMFRNDW
MANIFACTURED GOODS - WORLD	TEMFRW
	TEMINEW
	TEMSMFRPRW
MOTOR	TEMTRVERW
EXPORTS MOTOR VEHICLE PARTS - WORLD EXPOSES OTHER NONFIGURENT MACHINERY - WORLD	TENELECMEW
NATURAL GAS - WORLD	TENGASW
STONE, CLAY & GLASS PROD -	TENMETMINP
	TENMETMINW
EXPORTS TOTAL NONFERROUS METALS - WORLD	TENDERM
	TEOPAPRW
TOTAL OTHER	TEOTHFARMW
TOTAL OTHER BASE METALS -	TEOTHMETAL
PAPER	TEPAPERW
EXPORTS CRUDE PETROLEUM - WORLD	TEPULPW
	TERBLIHCLT
OTHER TRANSPORTATION EQUIP - WORLD	TERETRW
RE-EXPORTS - WORLD	TERXPTW
SERVICE	TESTROHM
	TESOTHSERW
SPECIAL TRANSACTIONS - WORLD	TESPECW
SERVIC	TESTRAVELM
TOTAL SERVI	TETEVATIES
EXPORTS TEXTILES - WORLD	

SW RW

SW

HM

ALCOHOLIC BEVERAGES & TOBACCO - WORLD CHEMICALS & PROD - WORLD ELECTRICAL MACHINERY & EQUIP - WORLD

COAL - WORLD

PRICE

EXPORT EXPORT

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PRICE

EXPORT EXPORT EXPORT EXPORT EXPORT EXPORT EXPORT

PRICE PRICE

VARIABLES EXOGENOUS TO THE EXPORTS PRICE BLOCK

OECD CONSUMPTION EXPENDITURE - WTD

EXPORTS WOOD & LUMBER - WORLD

EXPORTS URANIUM - WORLD

Œ	[1]	(F)	(H)	田	(1)	(±)	[2]		[2]					(=)	口	[1]	[4]	[2]	(±)	(2)		E	(1)	[2]	[2]	(42	(L)	H	[7]	[1]	(L)	(±)		[1]	[+]	[1]	(L)	ഥ
TE.US.ALC+TB	TE.US.C	TE.US.C	TE.US.E	TE.	S.F	TE.US.F	TE.US.F	TE.US.F	.US	TE.US	TE,US	TE.US	TE.US	TE.US	Sn.	TE.US	TE.US	TE.US	PTE.US.NGASW	TE.US	TE,US	TE.US	TE.US	TE.US.R	TE.US.R	TE.US.TE	TE.US.T	TE.US.UR	E.US.	DUM710	ENAB	EREMAW						
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MOTOR VEHICLE PARTS - WORLD
NONELECTRIC MACH & EQUIP - WORLD
NONMETALLIC MINERALS - WORLD
NONMETALLIC MINERALS - WORLD
NONMETALLIC MINERAL PROD - WORLD

PRICE PRICE PRICE

NONFERROUS METALS - WORLD

NEWSPRINT - WORLD

PRICE PRICE PRICE PRICE PRICE

EXPORT EXPORT

IRON & STEEL PROD - WORLD
AGRICULTURAL MACHINERY - WORLD MISC MANUFACTURED PROD - WORLD

PRICE PRICE PRICE

EXPORT EXPORT EXPORT

EXPORT EXPORT EXPORT EXPORT EXPORT EXPORT EXPORT

PRICE PRICE PRICE

GRAINS - WORLD INCOME RECEIPTS - WORLD

FURNITURE - WORLD

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EXPORT

PRICE PRICE

PRICE PRICE PRICE

MOTOR VEHICLE PROD - WORLD

FORESTRY - WORLD
PETROLEUM & COAL PROD - WORLD

ELECTRIC POWER - WORLD FABRICATED METAL PROD - WORLD FREIGHT & SHIPPING - WORLD

FOOD PROD - WORLD

RUBBER, LEATHER & CLOTHING GOODS - WORI RESIDUAL TRANSPORT EQUIP - WORLD TEXTILES - WORLD

PULP - WORLD

TRAVEL RECEIPTS - WORLD

PRICE PRICE PRICE

EXPORT

EXPORT EXPORT

PRICE

EXPORT

PRICE

EXPORT

URANIUM - WORLD

PRICE

OTHER PAPER & PROD - WORLD
OTHER SERVICE RECEIPTS - WORLD
OTHER AGRICULTURAL - WORLD
OTHER METALS - WORLD
CRUDE PETROLEUM - WORLD

PRICE

EXPORT EXPORT EXPORT PRICE - WOOD & LUMBER - WORLD
DUMMY VARLABLE - TRADE BLOCK
EXPORTS ADJUSTMENT (NA, BOP DISCREPANCIES) - WORLD
EXPORTS RESIDUAL MERCHANDISE ADJUSTMENT - WORLD

PTE.US.GRNSW * REXCAN

PTE. CA.GRNSW EXPORT PRICE - AGRICULTURE COMMODITIES - WORLD EXPORT PRICE - NONMETALLIC MINERALS - WORLD EXPORTS TOTAL NONMETALLIC MINERALS - WORLD EXPORT PRICE - OTHER AGRICULTURAL - WORLD EXPORTS AGRICULTURAL COMMODITIES - WORLD EXPORTS TOTAL OTHER BASE METALS - WORLD EXPORT PRICE - CRUDE PETROLEUM - WORLD EXPORT PRICE - OTHER METALS - WORLD EXPORT PRICE - NATURAL GAS - WORLD EXPORTS TOTAL OTHER FARM - WORLD EXPORTS CRUDE PETROLEUM - WORLD EXPORT PRICE - FORESTRY - WORLD EXPORT PRICE - URANIUM - WORLD EXPORT PRICE - GRAINS - WORLD EXPORTS TOTAL GRAINS - WORLD EXPORTS NATURAL GAS - WORLD EXPORT PRICE - COAL - WORLD EXPORTS FORESTRY - WORLD EXPORTS URANIUM - WORLD EXPORTS MINING - WORLD EXPORTS COAL - WORLD

EXPORT PRICE - NONMETALLIC MINERAL PROD - WORLD EXPORT PRICE - NONELECTRIC MACH & EQUIP - WORLD EXPORT PRICE - RESIDUAL TRANSPORT EQUIP - WORLD EXPORT PRICE - ELECTRICAL MACH & EQUIP - WORLD EXPORTS OTHER NONELECTRICAL MACHINERY - WORLD EXPORT PRICE - AGRICULTURAL MACHINERY - WORLD EXPORTS STONE, CLAY & GLASS PRODUCTS - WORLD EXPORTS DURABLE MANUFACTURED GOODS - WORLD EXPORT PRICE - FABRICATED METAL PROD - WORLD EXPORT PRICE - MOTOR VEHICLE PARTS - WORLD EXPORTS OTHER TRANSPORTATION EQUIP - WORLD EXPORT PRICE - TRANSPORT EQUIPMENT - WORLD EXPORT PRICE - IRON & STEEL PROD - WORLD EXPORT PRICE - NONFERROUS METALS - WORLD EXPORTS ELECTRICAL MACH & EQUIP - WORLD EXPORTS TOTAL MACH & EQUIP - WORLD EXPORTS TOTAL NONFERROUS METALS - WORLD EXPORTS AGRICULTURAL MACHINERY - WORLD EXPORT PRICE - MACH & EQUIP - WORLD EXPORT PRICE - MOTOR VEHICLES - WORLD EXPORTS FABRICATED METAL PROD - WORLD EXPORT PRICE - WOOD & LUMBER - WORLD EXPORTS WOOD & LUMBER - WORLD EXPORTS MOTOR VEHICLE PARTS - WORLD EXPORTS TOTAL IRON & STEEL - WORLD EXPORTS TRANSPORT EQUIP - WORLD EXPORTS MOTOR VEHICLES - WORLD EXPORT PRICE - MINING - WORLD

TEWOLUMBWS + TEIRASWS + TENOFRMTWS + TEFABRMTLWS TEURANW\$ + TEOTHMETALSW\$ + TECOALW\$ + TEPETOW\$ TEMTRVEHW\$ + TEMTRVPARTSW\$ + TERETRW\$ TEMAFAWS + TENELECMEWS + TEELECMEWS TENMETMINPRW * PTE.CA.NMTMNPW TEOTHMETALSW * PTE.CA.OTHMTLW TEMTRVPARTSW * PTE.CA.MTVPTW **IEFORESTRYW * PTE.CA.FRSTRYW** TENMETMINW * PTE.CA.NMETMNW TENOFRMTW * PTE.CA.NOFRMTW TENELECMEW * PTE.CA.NELMEW TEFABRMILW * PTE.CA.FBMTLW TEOTHFARMW * PTE.CA.OTHFMW TEELECMEW * PTE.CA.ELCMEW TEMTRVEHW * PTE.CA.MTVEHW TEWOLUMBW * PTE.CA.WOLUW + TENGASW\$ + TENMETMINW\$ PTE.US.NMTMNPW * REXCAN TEGRAINSW * PTE.CA.GRNSW TEGRAINSWS + TEOTHFARMWS PTE.US.NMETMNW * REXCAN PTE.US.NOFRMTW * REXCAN PTE.US.FRSTRYW * REXCAN PTE.US.OTHMTLW * REXCAN TEMAFAW * PTE.CA.MAFAW PTE.US.NELMEW * REXCAN PTE.US.MTVPTW * REXCAN TERETRW * PTE.CA.RETRW PTE.US.ELCMEW * REXCAN PTE.US.MTVEHW * REXCAN TEIRASW * PTE.CA.IRASW PTE, US, FBMTLW * REXCAN PTE.US.OTHFMW * REXCAN TECOALW * PTE.CA.COALW TEPETOW * PTE.CA.PETOW TENGASW * PTE.CA.NGASW TEURANW * PTE.CA.URANW PTE.US.RETRW * REXCAN PTE.US.NGASW * REXCAN PTE.US.WOLUW * REXCAN PTE.US.IRASW * REXCAN PTE.US.MAFAW * REXCAN PTE.US.URANW * REXCAN PTE.US.COALW * REXCAN PTE.US.PETOW * REXCAN TEMINEWS / TEMINEW TEM+EWS / TEM+EW TETPTW\$ / TETPTW TEAGRWS / TEAGRW PTE. CA.NMTMNPW PTE.CA.NMETMNW PTE.CA.NOFRMTW PTE.CA.OTHMTLW PTE.CA.FRSTRYW PTE.CA. FBMTLW PTE. CA.NELMEW PTE, CA, ELCMEW PTE, CA, MTVEHW PTE.CA.MTVPTW TEMTRVPARTSWS TENMETMINPRWS PTE.CA.OTHFMW TEOTHMETALSW\$ PTE.CA.IRASW PTE.CA.MAFAW PTE.CA.RETRW PTE.CA.MINEW PTE.CA.WOLUW TEFORESTRYWS PTE.CA.URANW PTE.CA.COALW PTE.CA.PETOW PTE.CA.NGASW PTE.CA.TPTW PTE.CA.M+EW TEFABRMTLWS TENELECMEWS PTE.CA.AGRW TENMETMINWS TEMTRVEHWS TEOTHF ARMWS TENOFRMTWS TEELECMEWS TEWOLUMBWS **FEGRAINSWS** TEIRASWS TERETRW\$ TEMFRDWS TEMAFAWS TECOALWS TEPETOWS TENGA SW\$ TEMINEWS TEURANWS TETPTWS TEM+EW\$ TEAGRWS

PTE.CA.ALC+TBW TEALCO+TOBWS

TEM+EW\$ + TETPTW\$ + TENMETMINPRW\$ TEALCO+TOBW * PTE.CA.ALC+TBW PTE.US.ALC+TBW * REXCAN

EXPORTS ALCOHOLIC BEVERAGES & TOBACCO - WORLD

EXPORT PRICE - ALCOHOL & TOBACCO - WORLD

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TESTREMAN + TESTRAVELWS + TESTNORCWS + TESOTHSERWS 320 TESWS + TESTRAVELWS + TESTRAVELWS + TESTRAVELWS + TESTRAVELWS + TESTRAVELWS + TESTRAWS OIGHOUS HEGGEN NAWS / TEG+SNAWS / TEG+SNAWS / TEG+SNAWS + TESTREMANS + TESTAFDWS + TESTAFDWS + TENABPADJWS + TENABPADJWS + TESTRAMS + TESTAFDWS + TESTAFDWS + TESTAFDWS + TENABPADJWS 
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            + TEPAPERW$ + TEFUPTW$ + TEELPOW$ + TECHEMW$
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               TENPRIMS + TEPULPWS + TEFURNWS + TEOPAPRWS
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                                                                                                                                                                                     TERBLIHCLIHW * PIE.CA.RBLIHCLW
                                                                                                                                                                                                                                                      TETEXTILESW * PTE.CA.TEXMTW
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   TEMSMFRPRW * PTE.CA.MSMFRW
                                                                            TEALCO+TOBWS + TEFOODPRWS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              TESTRAVELW * PTE.CA.TRVLW
                                           TEFOODPRW * PTE, CA, FDPRW
                                                                                                                                                 PTE.US.RBLTHCLW * REXCAN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     TECHEMW * PTE.CA.CHEMPRW
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     TESFRSHW * PTE.CA.FRSHW
                                                                                                                                                                                                                         PTE.US.TEXMTW * REXCAN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      TEELPOW * PTE.CA.ELPOW
                                                                                                                                                                                                                                                                                                                               TENPRTW * PTE.CA.NPRTW
                                                                                                                                                                                                                                                                                                                                                                                                    TEPULPW * PTE.CA.PULPW
                                                                                                                                                                                                                                                                                                                                                                                                                                                                         TEFURNW * PTE.CA.FURNW
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                                                                                                                                                                                                                                                                                           PTE.US.NPRTW * REXCAN
                                                                                                                                                                                                                                                                                                                                                                                                                                 PTE.US.FURNW * REXCAN
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              PTE.US. FDPRW * REXCAN
                                                                                                                                                                                                                                                                                                                                                                PTE.US.PULPW * REXCAN
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        PTE.US.FRSHW * REXCAN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  PTE.US.INRCW * REXCAN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   + TERXPIWS + TESPECWS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            TEPAPERWS / TEPAPERW
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    FEMFRNDW$ / TEMFRNDW
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     TEMFRDWS + TEMFRNDWS
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                                                                                                                TEFOODW$ / TEFOODW
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                                                                                                                                             PTE.CA.RBLTHCLW
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                                                                                                                                                                                 TERBL THCL THW$
                                                                                                                                                                                                                      PTE.CA.TEXMTW
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          PTE. CA. FDPRW
                                                                                                            PTE.CA.FOODW
                                                                                                                                                                                                                                                      TETEXTILESW$
                                                                                                                                                                                                                                                                                       PTE, CA, NPRTW
                                                                                                                                                                                                                                                                                                                                                                PTE.CA.PULPW
                                                                                                                                                                                                                                                                                                                                                                                                                                     PTE.CA.FURNW
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          PTE.CA.OPAPW
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       PTE, CA, FUPTW
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         PTE, CA, ELPOW
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      PTE.CA.TRVLW
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               PTE.CA.INRCW
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        TESOTHSERW$
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      PTE.CA.G+SW
                                           TEFOODPRWS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   TESINCRCWS
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                                                                               TEFOODWS
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                                                                                                                                      EXPORT PRICE - RUBBER, LEATHER & CLOTHING GOODS - WORLD EXPORTS TOTAL RUBBER, LEATHER & CLOTHING - WORLD
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    EXPORTS SERVICE RECEIPTS - PERSONAL REMITTANCES - WORLD
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       EXPORTS SERVICE RECEIPTS - FREIGHT & SHIPPING - WORLD
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             EXPORTS SERVICE RECEIPTS - INCOME RECEIPTS - WORLD EXPORT PRICE - OTHER SERVICE RECEIPTS - WORLD
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      EXPORTS SERVICE RECEIPTS - OTHER SERVICES - WORLD
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           EXPORTS TOTAL GOODS & SERVICES - NA BASIS - WORLD
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      - MANUFACTURED NONDURABLES - WORLD
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    WORLD
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            EXPORTS OTHER PAPER & PRINTING PROD - WORLD EXPORTS PAPER & ALLIED PRODUCTS - WORLD EXPORT PRICE - PAPER & ALLIED PROD - WORLD
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           EXPORT PRICE - OTHER PAPER & PROD - WORLD
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  EXPORTS PETROLEUM & COAL PRODUCTS - WORLD
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            EXPORTS SERVICE RECEIPTS - TRAVEL - WORLD
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      PRICE - TOTAL GOODS - WORLD
PRICE - FREIGHT & SHIPPING - WORLD
                                                                                                                                                                                                           EXPORT PRICE - TEXTILE MATERIALS - WORLD
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           EXPORT PRICE - MANUFACTURED PROD - WORLD
                                                                                                  EXPORT PRICE - FOOD & BEVERAGES - WORLD
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            EXPORTS CHEMICALS & CHEMICAL PRODUCTS -
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         EXPORTS NONDURABLE MANUFACTURED GOODS -
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           EXPORT PRICE - CHEMICALS & PROD - WORLD
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           EXPORT PRICE - SERVICE RECEIPTS - WORLD
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                EXPORT PRICE - GOODS & SERVICES - WORLD
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             EXPORT PRICE - INCOME RECEIPTS - WORLD
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           EXPORT PRICE - TRAVEL RECEIPTS - WORLD
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          EXPORTS TOTAL SERVICE RECEIPTS - WORLD
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              EXPORT PRICE - ELECTRIC POWER - WORLD
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            SPECIAL TRANSACTIONS - WORLD
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       EXPORTS MANUFACTURED GOODS - WORLD
                                EXPORTS TOTAL OTHER FOODS - WORLD
                                                                                                                                                                                                                                                                                                                                                                                                                  EXPORT PRICE - FURNITURE - WORLD
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  EXPORTS ELECTRICAL POWER - WORLD
EXPORT PRICE - FOOD PROD - WORLD
                                                                                                                                                                                                                                                                                EXPORT PRICE - NEWSPRINT - WORLD
                                                             EXPORTS TOTAL FOODS - WORLD
                                                                                                                                                                                                                                                                                                                                                     EXPORT PRICE - PULP - WORLD
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            EXPORTS SPECIAL TRANSACTIONS EXPORTS TOTAL GOODS - WORLD
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            EXPORTS RE-EXPORTS - WORLD
                                                                                                                                                                                                                                                                                                             EXPORTS NEWSPRINT - WORLD
                                                                                                                                                                                                                                                                                                                                                                                                                                                          EXPORTS FURNITURE - WORLD
                                                                                                                                                                                                                                    EXPORTS TEXTILES - WORLD
                                                                                                                                                                                                                                                                                                                                                                                     EXPORTS PULP - WORLD
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               EXPORT PRICE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         EXPORT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          EXPORT
```

Equation No.: 1411

Name: Exports, Service Receipts -- Personal Remittances -- World

Mnemonic: TESPERRMW\$ Period: 1958-75

TESPERRMW\$

+ sum(i=0,2)b(i) ZOECDCONSWT(-i)

i	b(i)	t(i)	c(i)	t(i)
0 1 2	-1.45743 +.63994 +2.73731	(1.84) (10.85) (3.23)	+.326846 +.262635 +.198425	(5.67) (11.50) (3.29)
sum	+1.91983	(10.85)	+.78791	(11.50)
	(1,3,NONE)		(1,3,NONE)	

 $\overline{R}^2 = 0.990$ SEE = 6.599 D.W. = 2.193

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Equation No.: 617

Name: Exports, Service Receipts -- Inheritances and Migrants' Funds

Mnemonic: TESIMFDW\$ Period: 1959-74

TESIMFDW\$ / PFC

+
$$sum(i=1,5)b(i)$$
 (TESIMFDW\$(-i) / PFC(-i))

(2,5,NONE)

 $\overline{R}^2 = .979$ SEE = 19.726 D.W. = 2.054



FINAL DEMAND DEFLATORS
GNE AND FINAL DOMESTIC DEMAND

We have again come full circle. The route to final demand prices begins with final demand price conversion. The primary influences include domestic prices, foreign prices, the exchange rate, various input-output matrices, various indirect tax rates, and the import content of total supply. There are certain anomalies which are present once the pseudo final demand prices are determined. In the consumption and government purchases of goods and services blocks, prices associated with health care and government purchases of goods and services are influenced not by a single pseudo final demand deflator but by a weighted average of several pseudo final demand deflators. These anomalies occur because of the way we have organized Statistics Canada input-output tables (the inclusion of an augmented sector for noncommercial services). In doing this, we introduced a preconversion step associated with government purchases of goods and services. In order to conform definitionally with preconversion concepts in the real GNE vector we use the weights in the preconversion step to derive concepts that are definitionally more suited as inputs into the final demand price stochastic equations for health care and selected government purchases of goods and services.

We also have indicated that within the government block there are certain deflators which are different at the federal, provincial, municipal and local, and hospital levels

while there is another set of deflators which are common for all levels of government.

For government capital formation, we indicated that the deflators associated with capital formation are handled only at the aggregate level but used at lower levels of government with no distinction made between federal, provincial, municipal and local, or hospital. We indicated that in construction the commodity composition of investment does not vary across purchasing industries. (We have only one activity associated with construction in the Use, Make, and Bridge matrix.) Therefore, only one price is returned through the final demand price conversion process. This single price is used as input to explain final demand prices associated with investment in construction. This is not the case for investment goods in machinery and equipment where the commodity composition varies by purchasing industries.

We indicated that for residential construction only one price is returned in the price conversion process. Furthermore, because of data limitations, only the aggregate National Accounts price is explained in CANDIDE Model 2.0. For inventories, price conversion returns two prices — one associated with raw materials and one associated with finished goods. These are used to explain the National Accounts concepts. In our discussion of inventory prices we indicated that the inventory valuation adjustment is

accounted for by applying, to the initial period (1971 dollar) stock, price changes implied from movements in the raw material and finished goods inventory stock deflators. We also indicated that IVA is influenced in different ways depending upon the kind of variation that is present during the price conversion process. We used the example of a manufacturers' sales tax cut versus a provincial sales tax cut to indicate the reasons for differential impacts.

Finally, in the discussion of import and export prices, we indicated the importance of import prices in domestic final demand price formation due to the import content weight of the total commodity supply price. We indicated that simulations with CANDIDE Model 2.0 must be interpreted with care because final demand prices are tied with a high weight to import prices via price conversion. The high import content has important implications for the consumer price index, the implicit deflator for consumption, the implicit deflator for investment and the real wage. We indicated that the multiplier properties of CANDIDE Model 2.0 can in part be explained by this high import content weight.

Once the final demand prices associated with the quantities on the demand side of the model have been

CANDIDE MODEL 2.0 OCTOBER, 1979 SECTION 27, PAGE 4

generated, the National Accounts identities in nominal terms can be formed. The National Accounts identities in nominal terms and the disaggregated components play important roles elsewhere in the system. As we move to the balance of payments, financial, government revenue and expenditure blocks of the model, we shall see the important influence that the nominal values have.

GNE & FINAL DOMESTIC DEMAND PRICE BLOCK

(c)

REES

VARIABLES EXOGENOUS TO THE GNE & FINAL DOMESTIC DEMAND PRICE BLOCK

RESIDUAL ERROR OF ESTIMATE

GOVT EXPND - CURNT GDS & SRVS - TOTAL
GROSS FIXED CAPITAL FORMATION - TOTAL
GROSS NATIONAL EXPENDITURE AT MARKET PRICES
EXPORTS TOTAL GOODS & SERVICES - NA BASIS - WORLD
IMPORTS GOODS & SERVICES - NA BASIS - WORLD

TEG+SNAW\$ TMG+SNAW\$ GNE

.INV\$ C\$ GE.CGS\$ GFC\$

INVENTORY CHANGE - TOTAL ECONOMY CONSUMER EXPENDITURE - TOTAL

VARIABLES DETERMINED OUTSIDE THE GNE & FINAL DOMESTIC DEMAND PRICE BLOCK

= C\$ + GE.CGS\$ + GFC\$ + .INV\$ + TEG+SNAW\$ - TMG+SNAW\$ - REE\$ = (GNE\$ / GNE) * 100 = GNE\$ + TMG+SNAW\$ + REE\$ - TEG+SNAW\$ - .INV\$ VARIABLES ENDOGENOUS TO THE GNE AND FINAL DOMESTIC DEMAND PRICE BLOCK (IDENTITIES) GNE\$ GROSS NATIONAL EXPENDITURE AT MARKET PRICES

PFGNE FDD\$

GNE DEFLATOR FINAL DOMESTIC DEMAND



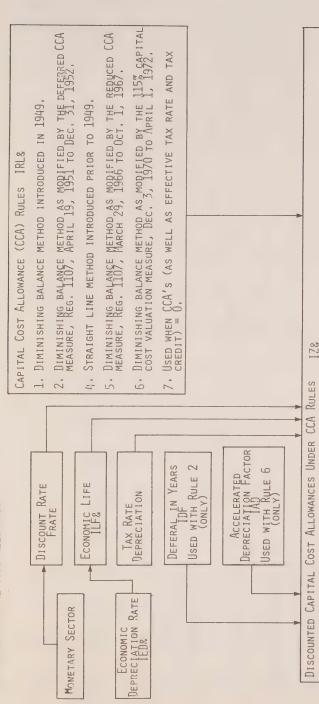
USER COST OF CAPITAL AT THE INDUSTRY LEVEL FOR BOTH MACHINERY AND EQUIPMENT AND CONSTRUCTION

An important item that influences the investment decision is the user cost of capital. In CANDIDE Model 2.0, there are a set of industry specific user cost of capital variables. The acquisition cost of capital goods is not indicative of the user cost (rental price) of capital because the services of capital are spread over a finite life. In the investment equations, the profitability of new capital and its influence on the investment decision is captured by comparing the price of goods which capital produces with the acquisition cost associated with new capital goods adjusted for (1) the economic life of new capital goods, (2) the market rate of discount, (3) the corporate tax rate, (4) the investment tax credit rate, (5) the rate of economic depreciation, (6) the rate of depreciation for tax purposes and, (7) the statutory laws associated with the speed with which new investment can be written off. There are five different (most likely) write off rules associated with the period 1949-1974. They are either the straight line method or variations of the diminishing balance method. There are a set of industry specific indicators associated with each one of the above concepts. Many of these indicators, including the investment tax credit rate (effective), the corporate tax rate (effective), the rate

of depreciation for tax purposes and the statutory write off rules, are industry specific (in the case of the write off rules, we have industry specific formulae). As a proxy for industry specific acquisition cost of new capital goods we use the final demand deflators associated with investment goods obtained from price conversion. For the discount rate we use the long term industrial bond rate determined in the financial block.

Although corporate profits and interest rates do not appear as explicit explanatory variables in the investment equations, they do have an impact on the investment decision in CANDIDE Model 2.0 through the various policy handles and other endogenous variables which influence the user cost of capital.

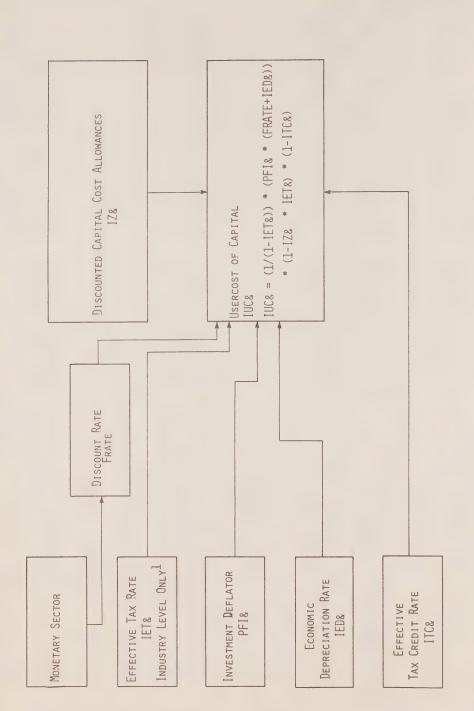




 $\sum_{\tau=1}^{3} \cdot 51108(1-1708)^{\tau-1} / (1+FRATE)^{\tau} + \sum_{\tau=4}^{11E_R} \left\{ 1708 \left[1 \cdot \cdot 51708 \sum_{\tau=1}^{3} (1-1708)^{\tau-1} \right] * (1-1708)^{\tau-4} \right\} / (1+FRATE)^{\tau}$ ILF& ITD%(1-ITD%)^{T-IDF} / (1+FRATE)^T
T=IDF $\sum_{r=1}^{1LFg} \text{ITDg}(\text{I-ITDg})^{\tau-1} / (\text{I+FRATE})^{\tau}$ $\frac{1/\text{ITD}_8}{\sum_{T=1}^{2}} \text{ITD}_8 \ / \ (1+\text{FRATE})^T$ П H 11 П 1 Z& 37I 1Z8 178 178 2. 4

178

7



USERCOST OF CAPITAL

- & = AGFTC for agric. fish and trap. indst. bldg. & eng. construction
- & = FSTYC31.9 for forestry indst. bldg. & eng. construction
- & = MICLC61 for coal min. indst. bldg. & eng. construction
- & = MIPC64+96.9 for crd. pet natl. gas & serv. inc. to min. indst. bldg. & eng. construction
- & = MIMMC51.9 for metal mining indst. bldg. & eng. construction
- & = MINMC71.8 for nonmetal min. indst. (ex coal) bldg. & eng. construction
- & = MFDC251.9 for wood indst. bldg. & eng. construction
- & = MFDC261.8 for fur. & fixt. indst. bldg. & eng. construction
- & = MFDC291.4 for iron & steel indst. bldg. & eng. construction
- & = MFDC295.8 for nonferrous metals indst. bldg. & eng. construction
- & = MFDC301.9 for metal fab. indst. bldg. & eng. construction
- & = MFDC311.8 for mach. (excl. elec. mach.) indst. bldg. & eng. construction
- & = MFDC321+326.9 for nonauto transport equip. indst. bldg. &
 eng. construction
- & = MFDC323.4 for motor vehicle indst. (ex parts & acc.) bldq. & eng. construction
- & = MFDC325 for motor vehicle parts & acc. indst. bldg. &
 eng. construction
- & = MFDC331.9 for electrical prod. indst. bldg. & eng. construction
- & = MFDC351.9 for nonmetal min. prod. indst bldg. & eng. construction
- & = MFNDC101.9 for food & bev. indst. bldg. & eng. construction
- & = MFNDC151.3 for tobacco prod. indst. bldg. & eng. construction

- & = MFNDC162.5 for rubber & plastic prod. indst. bldg. & eng. construction
- & = MFNDC172.9 for leather indst. bldg. & eng. construction
- & = MFNDC181.9 for textile indst. bldg. & eng.
- & = MFNDC231.9 for knitting & clothing indst. bldg. & eng. construction
- & = MFNDC271.4 for paper & allied indst. bldg. & eng. construction
- & = MFNDC286.9 for print, pub. & allied indst. bldg. & eng. construction
- & = MFNDC365.9 for pet. & coal prod. indst. bldg. & eng. construction
- & = MFNDC372.9 for chem. & chem. prod. indst. bldg. & eng. construction
- & = MFNDC391.9 for misc. manuf. indst. bldg. & eng. construction
- & = CNSTC for construction indst. bldg. & eng. construction
- & = TRSPC501.27 for transport indst. bldg. & eng.
 construction
- & = COMMC543.8 for communication indst. bldg. & eng. construction
- & = FIREC701.37 for fin. ins. & real estate indst. bldg. &
 eng. construction
- & = UTILC572.9 for utility indst. bldg. & eng. construction
- & = TRADC602.99 for whlse & retail trade indst. bldg. & eng. construction
- & = SVCMC for commer svcs. indst. bldq. & enq. construction
- & = SVNCC for other noncommer svcs. indst. bldg. & eng. construction
- & = SVHGEDC806 for college & univ. educ. bldg. & eng. construction

- & = AGFTM for agric. fish and trap indst. mach. & equip.
- & = FSTYM31.9 for forestry indst. mach. & equip.
- & = MICLM61 for coal min. indst. mach. & equip.
- & = MIPM64+96.9 for crd. pet. natl. gas and serv. inc. to min. indst. mach. & equip.
- & = MIMM51.9 for metal mining indst. mach. & equip.
- & = MINMM71.87 for nonmetal min. indst. (ex coal) mach. & equip.
- & = MFDM251.9 for wood indst. mach. & equip.
- & = MFDM261.8 for furn. and fixt. indst. mach. & equip.
- & = MFDM291.4 for iron and steel indst. mach. & equip.
- & = MFDM295.8 for nonferrous metals indst. mach. & equip.
- & = MFDM301.9 for metal fab. indst. mach. & equip.
- & = MFDM311.8 for mach. (ex elec. mach.) indst. mach. &
 equip.
- & = MFDM321+326.9 for nonauto transport equip. indst. mach. & equip.
- & = MFDM323.4 for motor vehicle indst. (ex parts & acc.) mach. & equip.
- & = MFDM325 for motor vehicle parts and acc. indst. mach. & equip.
- & = MFDM331.9 for electrical prod. indst. mach. & equip.
- & = MFDM351.9 for nonmetal min. prod. indst. mach. &
 equip.
- & = MFNDM101.9 for food and bev. indst. mach. & equip.
- & = MFNDM151.3 for tobacco prod. indst. mach. & equip.
- & = MFNDM162.5 for rub. and plast. prod. indst. mach. &
 equip.
- & = MFNDM172.9 for leather indst. mach. & equip.
- & = MFNDM181.9 for textile indst. mach. & equip.
- & = MFNDM231.49 for knitting and clothing indst. mach. & equip.

- & = MFNDM271.4 for paper and allied indst. mach. & equip.
- & = MFNDM286.9 for print, pub. and allied indst. mach. & equip.
- & = MFNDM365.9 for pet. & coal prod. indst. mach. & equip.
- & = MFNDM372.9 for chem. & chem. prod. indst. mach. &
 equip.
- & = MFNDM391.9 for misc. manut. indst. mach. & equip.
- & = CNSTM for construction indst. mach. & equip.
- & = TRSPM501.27 for transport indst. mach. & equip.
- & = COMMM543.8 for communication indst. mach. & equip.
- & = FIREM701.37 for fin. ins. & real estate indst. mach. & equip.
- & = UTILM572.9 for utility indst. mach. & equip.
- & = TRADM602.99 for whlse and retail trade indst. mach. & equip.
- & = SVCMM for commer svcs. indst. mach. & equip.
- & = SVNCM for other noncommer svcs. indst. mach. & equip.
- & = SVHGEDM806 for college and univ. educ. mach. & equip.

FRATE = FRATE.IBOND.10Y - industrial long term bond rate





INDEXATION OF GOVERNMENT TRANSFERS AND REVENUES

CANDIDE Model 2.0 has within the government revenue and expenditure blocks, a number of revenue and expenditure items which in the early 1970's were indexed by statute to movements in the consumer price index. On the transfer side these include family allowance benefits, the old age security and guaranteed income supplement, World War 1 and World War 2 pensions, the Canada Pension Plan, and unemployment insurance benefits. On the revenue side the federal personal income tax system excluding Quebec is indexed. The indexing rules provide for the adjustment of benefit rates or tax brackets by formulae which depend on past movements in (1) CPI or, (2) selected wage indices. The indexing rules have been introduced into the system as a set of institutional behavioural equations. For this reason, it is possible either to override the indexing formulae or to make adjustments to account for changes in indexing rules not reflected in the current structure of the model. Furthermore, each of the specific programs (both on the revenue and transfer side of CANDIDE Model 2.0) which is subject to indexing by statute is associated with a unique indexing formula. This means that individual programs can be de-indexed, with the remaining ones simulated under indexed conditions.

VARIABLES DETERMINED OUTSIDE THE INDEXATION BLOCK

CPI DURATE NCNST NE NMF WBCNST WBMF

VARIABLES EXOGENOUS TO THE INDEXATION BLOCK

CANADA PENSION PLAN - WT SCHEME FOR PHASING IN RET BENEFITS UIB FRACTION OF CONTRIBUTORY EARNINGS RECEIVED

பெ

GBPC.I.WT GTF.I.UIBBR

FAMILY ALLOWANCE BENEFIT INDEX -	<75 GTF.I.FINDEX 75 76	= 1.0 = $CPI(-1) / CPI(-2)$ = 1.0
OLD AGE SECURITY AND GISS BENEFIT INDEX -	>76 <74 GTF.I.OAIND	CPI(-1) / CPI(-2)
WWI AND WW2 PENSION INDEX -	>73 <75 GTF.I.WIND	.75 * CPI / CPI(-1) + .25 * 1.0
CANADA PENSION PLAN - PENSION INDEX	>74 <75 GBPC.I.PENIN >74	= .75 * CPI / CPI(-1) + .25 * CPI(-1) / CPI(-2) = GBPC.I.PENIN = .75 * CPI(-1) / CPI(-2) + .25 * CPI(-2)
CANADA PENSION PLAN - APPROXIMATE WAGE INDEX	<75 GBPC.I.YMEX	
UNEMPLOYMENT INSURANCE - INDEX	<73 GTF.I.UICIND	[(WBCNST + WBMF) / (NCNST + NM)
UNEMPLOYMENT INSURANCE - BENCHMARK UNEMPLOYMENT RATE	>72 <75 GTF.I.URIND	OT / NE) (-1)
PERSONAL INCOME TAX - INDEX FOR BRACKETS AND BENEFITS	<74 GR.T.INDEX	1.0
PERSONAL INCOME TAX - SINGLE EXEMPTION	>73 <74 GR.T.SINGEX	(-1) / CPI(-2) T.SINGEX
PERSONAL INCOME TAX - MARRIED EXEMPTION	>73 <74 GR.T.MAREX	
PERSONAL INCOME TAX - BASIC TAX - 1ST - 18TH TAX INCOME BRKT	>73 <74 GR.V.YBRJ	GR.V.YBRJ, J=01,18
PERSONAL INCOME TAX - UPPER LIMIT TO SPOUSAL INCOME	>/3 <74 GR.T.MARUPL	S
PERSONAL INCOME TAX - PRICE INDEX - CUMULATIVE	>73 <74 GR.T.PINDEX	= GR.T.MARUPL(-1) * GR.T.INDEX = GR.T.PINDEX
CANADA PENSION PLAN MAXIMUM CONT EARNING - ANNUAL RATE	>73 <75 GTPC.C.MPE	= GR.T.PINDEX(-1) * GR.T.INDEX = GTPC.C.MPE
MOTOW AMBILIAT		
TON ABITABABNI		¥.
CANADA PENSION PLAN DEPENDENTS BENEFITS - ANNUAL RATE	<75 GBPC.R.ORPH	
CANADA PENSION PLAN SURVIVORS PENSION - ANNUAL RATE	>74 <75 GBPC.R.WID	= GBPC.R.ORPH(-1) * GBPC.I.PENIN = GBPC.R.WID GOO
		(.375/12) * (GTPC.C.MPE + GTPC.C.MPE(-1) G19 + GTPC.C.MPE(-2)) + GBPC.R.ORPH
CANADA PENSION PLAN DISABILITY BENEFITS - ANNUAL RATE	<75 GBPC.R.DIS	C.MPE + GTPC.C.MPE(-1)
CANADA PENSION PLAN DEATH BENEFIT	<75 GBPC.R.DEAD	+ GTPC.C.MPE(-Z)) + GBPC.R.ORPH 65 GBPC.R.DEAD 66
UIB MAXIMUM INSURABLE EARNINGS - ANNUAL RATE	<pre>>/4 <73 GTF.C.MAXYC</pre>	PAG
UIB MAXIMUM ANNUAL BENEFIT NO DEPENDENT	>72 <72 GTF.B.UIBS	GTF.C.MAXYC(-1) * GTF.I.UICIND F3 GTF.B.UIBS L
UIB EMPLOYER/EMPLOYEE CONTRIBUTION RATE	>71 <73 GTF.R.CUIB	00
	>72	= .9 * GTF.R.UIBBR * GTF.I.URIND / (100 - GTF.I.URIND)
FAMILY ALLOWANCE BENEFIT RATE PER ANNUM CHILD 0-9	<75 GBF.R.FA1 >74	= GBF.R.FR1(-1) * GTF.1.FINDEX

. GTF.I.FINDEX	GTF.I.FINDEX	* GTF.I.OAIND	* GTF.I.WIND * GTF.I.WIND
GBF.R.FA2 GBF.R.FA2(-1) * GBF.R.FA3	GBF.R.FA3(-1) * GTF.R.OAP GTF.R.OAP(-1) *		(-1) * 2 2(-1)
GBF.R.FA2 == GBF.R.FA3 ==	GTF.R.OAP ==	GTF.R.GISS = = GTF.R.WVA = =	GTF.R.WW12 ==
2 4 2	>74 <74 GTI >73	4 6 5	>74 <75 GTI >74



GOVERNMENT EXPENDITURES (EXCLUDING PURCHASES OF GOODS AND SERVICES AND CAPITAL FORMATION)

In CANDIDE Model 2.0 intersectoral transfer expenditures are disaggregated by level of government (federal, provincial, municipal and local, the Canada/Quebec Pension Plan and hospitals). Intersectoral transfer payments are those expenditures incurred by governments which are not counted as a factor payment on the income side and/or are not included as expenditures on the goods and services side of the National Accounts. These intersectoral transfer payments include (1) transfers to persons, foreigners and other levels of government, (2) subsidies, (3) capital assistance and (4) debt servicing. In this block we also derive an estimate of total expenditures by level of government in nominal terms by combining the intersectoral transfer expenditures with nominal expenditures from the goods, service and capital formation blocks.

The most important intersectoral transfer payments at the municipal and local level are transfer payments to persons, intergovernmental transfer payments, and debt servicing. Intergovernmental transfer payments are exogenous. Transfer payments to persons are influenced by population movements, municipal and local revenues, federal government unemployment insurance benefits, and the number of persons unemployed. Municipal and local debt servicing is a rate-base calculation. It depends upon the outstanding

stock of municipal and local debt and the long term provincial/municipal bond rate. The stock of municipal and local debt outstanding is obtained residually by accumulating past municipal and local deficits.

The equations associated with intersectoral transfer payments at the provincial level are specified in a way that captures structural elements. As an example, consider the debt servicing equation. The total stock of provincial bonds outstanding (domestic plus foreign) is obtained by accumulating past deficits. Two stocks are computed, one net of pension funds and the second including pension funds. The stock of municipal and provincial bonds is obtained by aggregating provincial and municipal debt. The additions to the stock of municipal and provincial debt held abroad is determined by a stochastic equation in the balance of payments block. In the provincial expenditure block there is an equation which splits foreign-held municipal debt from foreign-held provincial debt. Once the outstanding stock of provincial debt held abroad is on hand, the domestic component can be determined residually as that part of total debt which is not held abroad (the domestic supply of municipal and provincial debt feeds directly to the asset portfolio model in the financial block). Once the domestic/foreign split is on hand, provincial government interest payments on outstanding debt are derived from a ratebase calculation where the base is the outstanding stock of provincial debt in total (domestic plus foreign), but interest rates (U.S. and Canadian) are weighted according to the domestic/foreign split. The provincial debt servicing equation also accounts for the influence that pension fund earnings have on interest payments by the provinces in servicing outstanding debt.

Provincial intergovernmental transfer payments to hospitals and local governments are a substantial part of provincial government current expense. The equations associated with these items depend in part on the deficit position of local governments and on the deficit position of the hospital sector. These equations respond to the inability of local governments and hospitals to cover their spending with revenues from other sources.

Transfer payments to persons in the provincial sector include workmen's compensation, government pensions, transfer payments to persons (post-secondary education), and welfare. Each of these equations is influenced by right hand side variables determined elsewhere in the system. For instance grants to post-secondary education are explained by consumer spending on education. The latter is, by National Accounting conventions, identical to the operating expenses of universities. Welfare payments are explained by population, provincial government revenues, and federal unemployment insurance benefits. Workmen's compensation

is explained by the average level of nonagricultural wages and the CPI.

Federal government transfer payments to persons include such items as family allowance benefits, unemployment insurance benefits, old age and guaranteed income security benefits, et cetera. The family allowance benefits, the unemployment insurance benefits, and the old age security benefits are all rate-base calculations. For example, family allowance benefits depend upon an indexed benefit rate and an appropriate population cohort.

Unemployment insurance benefits depend upon the indexed benefit rate and the number of recipients, which is tied directly to the number of unemployed (from the demographic block). Federal government transfers to persons associated with the old age security and guaranteed income program depend upon population cohorts, cohort participation rates, and an indexed benefit rate.

Because of the associated policy content we have left exogenous the major agricultural, non-oil and oil subsidies at the federal level. Federal transfers to provincial governments are endogenous in the sample period. However, the established programs (health, medicare and education) are treated exogenously in projection exercises. The time path for these exogenous projections should conform to the statutory legislation currently in force.

Federal debt servicing is endogenous and like provincial, municipal and local debt servicing, is a ratebase calculation. The major financing requirements of the federal government are influenced by the federal deficit position and federal foreign exchange financing activity. Federal foreign exchange financing requirements are determined in the balance of payments block. composition of the stock of federal debt outstanding is determined in the debt portfolio model of the financial block. In the federal debt servicing equation there are three rates and three bases. The bases include the stock of treasury bills, the stock of Canada Savings Bonds (CSB's), and the stock of long term bonds outstanding. The rates are the finance company paper rate, the CSB rate, and the government ten year bond rate. These rates and bases are determined in the financial block and are influenced by the federal government deficit position.

Hospital expenditures in CANDIDE Model 2.0 (current purchases of goods and services) are determined in nominal terms by combining the information from the consumption and price conversion blocks. The purchases of non goods and service items are small compared to the purchases of goods and services.

The Canada/Quebec Pension Plan sub-model includes equations for disability, retirement, orphans, widows, and death benefits. All of these equations are rate-base calculations which depend upon the number of beneficiaries associated with each program and an indexed benefit rate. The number of beneficiaries of each program is influenced by demographic factors.

In summary, we have the following: (1) Transfer payments to persons at the municipal and local level, at the provincial level, at the federal level, and for the pension plans are aggregated to an economy wide total. Personal income is composed of a number of items of which transfer payments is of major importance. Transfer payments to persons in CANDIDE Model 2.0 are primarily rate-base calculations where the benefit rates are indexed according to statute and the bases are associated with a specific segment of the population and/or labour force. (2) Debt servicing at each level of government is endogenous in CANDIDE Model 2.0. There is disaggregation of outstanding debt by municipal, provincial, and federal levels. Furthermore, provincial debt has been disaggregated and includes a breakdown between foreign and domestic. Federal debt is disaggregated and includes treasury bills, CSB's

and long term government bonds. This disaggregation of debt within CANDIDE Model 2.0 contributes to a structural treatment of debt servicing. (3) Certain intergovernmental transfer payments from provincial governments to hospitals and provincial governments to local governments depend upon the inability of local governments to cover their costs from other revenue sources. The structure of these equations implies that municipal governments and hospitals turn to the provinces if their own revenue sources are inadequate. These equations in part explain the mechanism by which deficits are shifted by the intergovernmental transfer payments system from one level of government to another. (4) Lastly, CANDIDE Model 2.0, from the detail available by level of government (given the revenue accounts), provides estimates of the deficits associated with the federal government, the provincial governments, the municipal and local governments, hospitals and the Canada/Quebec pension plan.

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                                                                                                                                  = GEPENO.GS$ + GEPENO.TPE.BEN$
= GEPENC.TPE.BEN$ + GEPENO.TPE.BEN$ + GEF.TPE$
                                                                                 GBPC.B.DIS$ + GBPC.B.RET$ + GBPC.B.ORPH$
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Name: Local Government Expenditures -- Transfers to Persons, Total

Mnemonic: GEL.TPE\$ Period: 1955-75

ln((GEL.TPE\$ / DPOP) / CPI)

= - 1.69368 (1.84)

+ .497717 ln((GRL\$ / DPOP) / CPI) (2.83)

- .189724 ln(GEF.TPE.UIB\$ / ((DTOTLF - NE) * CPI))
(1.41)

+ .504181 ln(GEL.TPE\$(-1) / DPOP(-1) / CPI(-1)) (2.47)

 $\overline{R}^2 = .877$ SEE = .123 D.W. = .974 RHO = .489

Name: Local Government Expenditures -- Interest Payments

Mnemonic: GEL.INT\$ Period: 1955-75

GEL. INT\$ / GVL.B.STOCK(-1)

=	+ sum(i=0,5)b(i)	FRATE.PROG.BOND(-i)
i	b(i)	t(i)
0	+.00177594	(1.81)
1	+.00190562	(3.03)
2	+.00224179	(3.42)
3	+.00250189	(5.84)
4	+.00240334	(4.11)
5	+.00166357	(2.51)
sum	+.0124922	(39.59)

(3,6,FAR)

 $R^2 = .971$ SEE = .00391 D.W. = .735 RHO = .618

Name: Provincial Government Expenditures -- Transfers to

Persons, Workmen's Compensation

Mnemonic: GEP.TPE.WCOM\$ Period: 1955-75

GEP. TPE. WCOM\$ / (CPI * (NE - NAGFT1.21+41.7))

= + .0119585 (13.04)

+ .00301625 ((WBTOT - WBAGFT1.21+41.7) / (19.90) (NE - NAGFT1.21+41.7))

 $R^2 = .977$ SEE = .001 D.W. = 1.059 RHO = .499

Name: Provincial Government Expenditures -- Transfers to

Persons, Pensions (Government)

Mnemonic: GEP.TPE.PEN\$ Period: 1955-75

GEP. TPE. PEN\$

+ .107783
(0.21)

+ .00404289 GEP.CGS.WS\$

(1.12)

+ .987874 (CPI(-1) / CPI(-2) * GEP.TPE.PEN\$(-1))

(8.31)

 $\overline{R}^2 = .991$ SEE = 4.460 D.W. = 2.935 RHO = -.885

Equation No.: 2908

Name: Provincial Government Expenditures -- Transfers to

Persons, Grants to Post Secondary Education

Mnemonic: GEP.TPE.SCH\$ Period: 1954-75

GEP. TPE. SCH\$

= **-** 46.3015 (7.33)

+ •589292 CSE40\$ (55•16)

+ 131.364 GEDUM670N (7.82)

 $R^2 = .999$ SEE = 19.460 D. W. = 2.063

Name: Provincial Government Expenditures -- Transfers to Persons,

Welfare and Miscellaneous

Mnemonic: GEP.TPE.WEL\$ Period: 1955-75

GEP. TPE.WEL\$ / (DPOP * CPI)

+ .00499571
(3.22)

(3.24)

+ .0975591 (GRP\$ / (DPOP * CPI)) (17.70)

+ .00732799 GEDUM680N (3.17)

- .00337463 (GEF.TPE.UIB\$ / ((DTOTLF - NE) * CPI))

 $\overline{R}^2 = .992$ SEE = .002 D.W. = 1.663

Equation No.: 1427

Name: Provincial Government Expenditures -- Subsidies

Mnemonic: GEP.SUB\$ Period: 1955-75

GEP.SUB\$

= - 24.8671 (2.92)

> + 17.2812 GEDUMMY66 (0.69)

+ .00809756 (GNE\$ - GNE\$(-1)) (3.86)

+ .00801188 (GNE\$(-1) - GNE\$(-2))(1.93)

+ .62954 GEP.SUB\$(-1) (3.76)

 $\bar{R}^2 = .983$

SEE = 24.131 D.W. = 2.017

Equation No: 2962

Name: Stock of Outstanding Provincial Bonds -- Proportion Held Abroad

Mnemonic: GVP.B.SPLIT Period: 1956-75

GVP.B.SPLIT - (1 + (GVL.B.STOCK / GVP.B.STOCK)) * (TBK.STK.PRMNSC\$
 / (GVP.B.STOCK + GVL.B.STOCK))

= + .0622863 (3.89)

- .360859 (GVL.B.STOCK / GVP.B.STOCK) (10.64)

 $R^2 = .935$ SEE = .006 D.W. = .858 RHO = 0.491

Name: Provincial Government Expenditures -- Interest Payments

Mnemonic: GEP. INT\$ Period: 1956-75

(GEP.INT\$ - GRPENC.YI\$ - GRPENQ.YI\$) / GVP.B.STOCK(-1)

* FRATE.PROG.BOND(-i))

i	b(i)	t(i)	c(i)	t(i)
1 2 3 4 5	+.000695570 +.00111291 +.00125203 +.00111291 +.000695570	(6.56) (6.56) (6.56) (6.56) (6.56)	+.000873047 +.00139688 +.00157148 +.00139688 +.000873047	(3.45) (3.45) (3.45) (3.45) (3.45)
sum	+.00486899 (2,5,BOTH)	(6.56)	+.00611132 (2,5,BOTH)	(3.45)

 $R^2 = .928$ SEE = .002 D.W. = .809 RHO = .733

Equation No.: 1430

Name: Provincial Government Expenditures -- Transfers to

Local Government

Mnemonic: GEP.TLO\$ Period: 1955-75

GEP.TLO\$ + GRL.IT.PROP\$(-1) - GEL.INV\$(-1) - GEL.C\$(-1)

= - 367.257 (5.43)

- .0956020 (GEL.INV\$(-1) + GEL.C\$(-1)) (8.79)

 $R^2 = .887$ SEE = 115.06 D.W. = 1.149 RHO = .396

Equation No.: 1431

Name: Provincial Government Expenditures -- Transfers to Hospitals

Mnemonic: GEP.THO\$ Period: 1961-75

GEP. THO\$

= - 58.2431 (4.74)

> + .975469 (GEH.C\$ + GEH.INV\$) (188.98)

 $R^2 = .998$ SEE = 51.064 D.W. = 2.829 RHO = -.735

Equation No.: 2910

Name: Federal Government Expenditures -- Transfers to Persons,

Family and Youth

Mnemonic: GEF.TPE.FAYA\$ Period: 1954-75

GEF. TPE. FAYA\$

= - 10.6377 (0.44)

+ 1.01635 (GBF.R.FAl * (DMPOP00.04 + DMPOP05.09 (21.53) + DFPOP00.04 + DFPOP05.09) + GBF.R.FA2

* (DMPOP10.14 + DFPOP10.14 + 0.2 * (DMPOP15.19

+ DFPOP15.19)))

+ .585976 (GBF.R.FA3 * 0.4 * (DMPOP15.19 + DFPOP15.19))

(14.97)

- 35.0257 GEDFMAC

(6.50)

+ .301390 (GEDUM740N * (GBF.R.FA3 * 0.4 * (DMPOP15.19

(1.48) + DFPOP15.19)))

 $R^2 = 1.000$ SEE = 4.895 D.W. = 2.033

Name: Participation Rate -- Guaranteed Income Supplement

Mnemonic: GDF.P.GISPART Period: 1967-75

GDF.P.GISPART

= + .409239 (11.57) - .286786 ((GEPENC.TPE.BEN\$ + GEPENQ.TPE.BEN\$) (1.81) / ((DMPOP65+ + DFPOP65+) * CPI))

+ .287926 (GTF.R.GISS / CPI) (3.28)

 $\bar{R}^2 = .687$

SEE = .017

D.W. = 1.499

Equation No.: 2912

Name: Federal Government Expenditures -- Transfers to Persons,

Old Age Security

Mnemonic: GEF.TPE.OAS\$ Period: 1954-75

GEF.TPE.OAS\$

+ 36.2261 (2.73)

+ .944285 (GTF.R.OAP * GDF.P.OAPART * (DMPOP65+ (64.91) + DFPOP65+))

+ .894896 (GTF.R.GISS * GDF.P.GISPART * GDF.P.OAPART * (31.95) (DMPOP65+ + DFPOP65+))

 $\overline{R}^2 = 1.000$ SEE = 14.082 D.W. = .568 RHO = .744

Name: Number of Beneficiaries of Unemployment Insurance

Mnemonic: GDF.P.BENUI Period: 1956-75

GDF.P.BENUI

 $\overline{R}^2 = .993$ SEE = 11.403 D.W. = 2.240

Equation No.: 2914

Name: Federal Government Expenditures -- Transfers to Persons,

Unemployment Insurance

Mnemonic: GEF.TPE.UIB\$ Period: 1956-75

GEF. TPE. UIB\$

= + 28.97000 (2.91)

> + .780097 (GTF.B.UIBS * GDF.P.BENUI) (47.59)

- 278.576 GEDUMMY71

(9.68)

- 493.311 GEDUM720N

(9.57)

 $\overline{R}^2 = .999$ SEE = 23.167 D.W. = 1.789

Equation No.: 2915

Name: Federal Government Expenditures -- Transfers to Persons,

Pensions (Government)

Mnemonic: GEF.TPE.PEN\$ Period: 1956-75

GEF.TPE.PEN\$

= + 3.21580 (0.19)

+ .00974169 (GEF.CGS.NDWS\$ + GEF.CGS.DCWS\$ + GEF.CGS.DMP\$) (0.51)

+ .887539 (CPI(-1) / CPI(-2) * GEF.TPE.PEN\$(-1)) (4.05)

 $R^2 = .986$ SEE = 14.043 D.W. = 1.024 RHO = .484

Equation No.: 2916

Name: Federal Government Expenditures -- Transfers to Persons,

War Veterans Allowances

Mnemonic: GEF.TPE.WVA\$ Period: 1954-75

GEF.TPE.WVA\$

= + 12.2583 (2.27)

+ .860498 (GTF.R.WVA * GDF.P.WVA)

(15.43)

- 11.4237 GEDUMMY73

(1.05)

 $\overline{R}^2 = .921$ SEE = 10.317 D.W. = 1.464

Equation No.: 2917

Name: Federal Government Expenditures -- Transfers to Persons,

World War I and World War II

Mnemonic: GEF.TPE.PWW\$ Period: 1954-75

GEF.TPE.PWW\$

= **-** 21.0041 (2.23)

+ .484041 (GTF.R.WW12 * GDF.P.WW12)

(22.79)

- 27.0444 GEDUMMY73

(5.43)

 $\overline{R}^2 = .985$ SEE = 6.789 D.W. = .762 RHO = .617

Equation No.: 2955

Name: Federal Government Expenditures -- Transfers to Persons, Other

Mnemonic: GEF.TPE.OTH\$ Period: 1955-75

GEF.TPE.OTH\$ / DPOP / CPI

> + .00280518 (PY\$ / DPOP / CPI) (0.91)

+ .00307454 (GEDFTPE67 * (PY\$ / DPOP / CPI)) (3.58)

+ .00147665 (GEDFTPE71 * (PY\$ / DPOP / CPI)) (1.57)

 $\overline{R}^2 = .955$ SEE = .0022 D.W. = .750 RHO = .615

Equation No.: 1441

Name: Federal Government Expenditures -- Transfers to Nonresidents,

Official Contributions

Mnemonic: GEF.TNR.OCONT\$ Period: 1955-75

GEF.TNR.OCONT\$

= - 62.7713 (4.30)

> + .00296377 GNE\$ (15.95)

 $\bar{R}^2 = .927$ SEE = 32.627 D.W. = 1.427

Equation No .: 1444

Name: Federal Government Expenditures -- Interest Payments

Mnemonic: GEF.INT\$ Period: 1956-75

GEF.INT\$

= - 153.08200 (2.57)

> + 1.15401 (.005 * FRATE.FCPAPER3M * (FGD.TBILL (29.98) + FGD.TBILL(-1)) + .005 * FRATE.CSB * (FGD.CSB + FGD.CSB(-1)) + .005 * FRATE.GBOND.10Y * (FGD.BOND + FGD.BOND(-1)))

 $\overline{R}^2 = .979$ SEE = 126.36 D.W. = 1.998

Name: Federal Government Expenditures -- Transfers to Provinces,

Canada Assistance Plan and Other Welfare

Mnemonic: GEF.TPR.CAP+\$ Period: 1962-75

GEF.TPR.CAP+\$

= + 27.7967 (1.73)

+ .269252 GEP.TPE.WEL\$ (17.04)

- 44.7223 GEDUM670N (1.74)

 $\overline{R}^2 = .977$ SEE = 30.853 D.W. = 1.585

Equation No.: 1449

Name: Hospital Expenditures -- Interest Payments

Mnemonic: GEH.INT\$ Period: 1961-75

GEH. INT\$

= + 5.95519 (2.34)

> + .886773 GEH.INT\$(-1) (9.34)

 $\overline{R}^2 = .860$ SEE = 4.1669 D.W. = 1.574

Equation No.: 2945

Name: Canada Pension Plan -- Number of New Retirement Pension

Recipients

Mnemonic: GDPC.N.RET Period: 1969-75

GDPC.N.RET / (DMPOP65+ + DFPOP65+)

= + .024523 (4.46)

+ .00756739 In(GEDTIME)

(2.00)

+ .0142744 GEDUMMY70 (2.08)

 $R^2 = .414$ SEE = .005967

D.W. = 1.484

Equation No.: 2918

Name: Canada Pension Plan -- Retirement Benefits

Mnemonic: GBPC.B.RET\$ Period: 1969-76

GBPC.B.RET\$ - .961244 * GBPC.I.PENIN * GBPC.B.RET\$(-1)

= + .64578 (GDPC.N.RET * GBPC.R.RET)

(40.43)

- 12.5781 GEDUMMY74

(2.78)

 $R^2 = .991$ SEE = 4.343 D.W. = 1.775

Equation No.: 2951

Name: Canada Pension Plan -- Number of New Survivors Beneficiaries

Mnemonic: GDPC.N.WID Period: 1969-74

GDPC . N. WID

= - 27.7034 (1.30)

+ .589543 DDEATHS.MAR (2.16)

 $R^2 = .422$ SEE = 1.5257

D.W. = 1.657

Equation No.: 2919

Name: Canada Pension Plan -- Surviving Spouse Benefits

Period: 1970-76 Mnemonic: GBPC.B.WID\$

GBPC.B.WID\$ - .950405 * GBPC.I.PENIN * GBPC.B.WID\$(-1)

= + .91451 (GBPC.R.WID * GDPC.N.WID) (20.77)

 $R^2 = .903$

SEE = 2.311 D.W. = 1.627

Equation No .: 2949

Name: Canada Pension Plan -- Number of Death Benefits

Mnemonic: GDPC.P.DEAD Period: 1969-74

GDPC.P.DEAD / (.74 * DDEATHS)

= + .138880 (16.98)

+ .0620822 ln(GEDTIME) (9.51)

 $R^2 = .947$ SEE = .0097 D.W. = 2.640

NOTE: GEDTIME = 1 in 1969

Equation No.: 2920

Name: Canada Pension Plan -- Death Benefits

Period: 1969-76 Mnemonic: GBPC.B.DEAD\$

GBPC.B.DEAD\$

= + 1.03954(2.96)

> + .731401 (GBPC.R.DEAD * GDPC.P.DEAD) (38.97)

 $\overline{R}^2 = .995$ SEE = .373 D.W. = 1.643

Equation No.: 2921

Name: Canada Pension Plan -- Number of New Disability Recipients

Mnemonic: GDPC.N.DIS

Period: 1971-75

GDPC . N. DIS

= **-** 43.7039 (2.66)

+ .0063737 DTOTLF (3.56)

 $\bar{R}^2 = .745$

SEE = 1.974

D.W. = 1.722

Equation No.: 2922

Name: Canada Pension Plan -- Disability Benefits

Mnemonic: GBPC.B.DIS\$ Period: 1971-76

GBPC.B.DIS\$ - .762552 * GBPC.I.PENIN * GBPC.B.DIS\$(-1)

= + .968506 (GBPC.R.DIS * GDPC.N.DIS)

(37.67)

- 5.25545 GEDUMMY74

(3.04)

 $\overline{R}^2 = .982$ SEE = 1.607 D.W. = 1.571

Equation No.: 2923

Name: Canada Pension Plan -- Number of New Recipients

of Dependent Benefits

Mnemonic: GDPC.N.ORPH Period: 1969-76

GDPC . N . ORPH

= + 10.654 (5.61)

> + .55099 (GDPC.N.WID + GDPC.N.DIS) (9.78)

 $R^2 = .931$ SEE = 1.631 D.W. = .916

Equation No.: 2924

Name: Canada Pension Plan -- Dependents Benefits

Mnemonic: GBPC.B.ORPH\$ Period: 1969-76

GBPC.B.ORPH\$ - .765963 * GBPC.I.PENIN * GBPC.B.ORPH\$(-1)

= + 1.13677 (GBPC.R.ORPH * GDPC.N.ORPH) (19.67)

 $\overline{R}^2 = .910$ SEE = 1.884 D.W. = 1.476

Equation No.: 1453

Name: Quebec Pension Plan -- Benefits Paid

Mnemonic: GEPENQ. TPE. BEN\$ Period: 1969-76

GEPENQ. TPE. BEN\$

= + 3.64256 (0.52)

> + .346176 GEPENC.TPE.BEN\$ (18.77)

 $\bar{R}^2 = .980$ SEE = 12.273 D.W. = 1.921

Equation No.: 1410

Name: Government Expenditures -- Capital Assistance,

Persons

Mnemonic: GE.CAS.PE\$ Period: 1955-75

GE.CAS.PE\$

= **-** 7.63917 (0.73)

+ .290847 GE.CAS\$ (7.08)

+ 2.34727 (DURATE - DURATE(-1))
(1.02)

 $R^2 = .753$ SEE = 17.024 D.W. = .527 RHO = .736



GOVERNMENT REVENUES (EXCLUDING FEDERAL AND PROVINCIAL PERSONAL INCOME TAX)

Government revenues are disaggregated by level of government (federal, provincial, municipal and local, the Canada and Quebec pension plan, and hospitals) and by revenue source (direct taxes, personal and corporate, indirect taxes, transfers from persons and from foreigners, intergovernmental transfers, and investment income).

Let us deal first with municipal and local government revenues. The major revenue items at the municipal and local level are property taxes and provincial transfer payments. Both of these equations have been specified as reaction functions. Provincial intergovernmental transfers to local governments adjust to cover the gap between property tax receipts in the previous year and expenditures on current and capital account. The property tax equation states that property tax rates adjust to cover any shortfall that occurs in the difference between expected costs and provincial transfers.

Personal income tax collections at the provincial level are discussed in the section on the personal income tax calculator. The other personal direct tax items include pension and workmen's compensation contributions. These

equations have as right hand side explanatory variables proxies for the appropriate base upon which these taxes are levied. For example, the base in the workmen's compensation equation is wagebill per person in the nonagricultural sector.

Corporate direct taxes at the provincial level are a rate-base calculation. They depend upon a provincial corporate profit tax rate (weighted) and taxable corporate profits.

Indirect taxes accruing to provincial governments are disaggregated and include such items as the provincial gasoline tax, motor vehicle licence fees, the retail sales tax, and profits of liquor control boards. The retail sales tax is derived from a rate-base calculation with weighted provincial rates applied to the appropriate base by revenue source.

It was mentioned in the section on government expenditures that federal intergovernmental transfer payments to provinces associated with the tax agreement, health, and education have been left exogenous. However, when projected, the time path of these exogenous variables conforms to the statutory legislation currently in force.

Royalties at the provincial level associated with energy have been left exogenous because of their policy content. During simulation, they must be related directly to the energy price assumptions in any given solution. The remaining sources of provincial investment income are influenced by profits of government business enterprises, interest rates, and provincial government revenue levels.

Federal government revenues, like provincial government revenues, include a detailed explanation for direct personal taxes. Direct personal taxes at the federal level are discussed in the section dealing with the personal income tax calculator. The other direct taxes associated with personal income at the federal level include contributions to unemployment insurance and employer-employee contributions to government pension plans. Unemployment insurance contributions are derived from a ratebase calculation which depends upon those participating in the program (the base), an exogenously determined rate and a maximum contributory earning index.

Corporate taxes at the federal level are simple rate-base calculations. They depend upon corporate taxable income and the appropriate tax rate.

Indirect taxes at the federal level, including the manufacturing sales tax and excise taxes, are also rate-base calculations. The federal excise tax on gasoline and the oil export tax have been left exogenous because of their recent imposition.

The remaining revenue items in the National Accounts are those of the Canada/Quebec Pension Plan and hospitals. Pension Plan revenues are rate-base calculations which depend upon demographic information, contribution rates, and maximum taxable earnings. The contribution rates in the pension plan revenue calculator are exogenous.

Hospital revenues are largely transfers from the provinces. They depend upon the costs associated with the hospital accounts. These costs are generated as a result of the quantities determined in the consumption block and the prices associated with health care determined at the sector price level.

VARIABLES DETERMINED OUTSIDE THE GOVERNMENT REVENUE BLOCK

WBAGFT1.21+41.7 Y.PROFBT.CORP\$ Y.PROFBT.GOVBE\$ NAGFT1.21+41.7 GRP.DT.PINC\$ GRF.DT.PINC\$ GTF.C.MAXYC XFSTY31.9\$ GTF.R.CUIB GTPC.C.MPE IMSINCPYW\$ GEP. TLOS IBNACO\$ PFCNT30 G EP ENQ\$ PFCNF20 PFCNF30 RCI NAB\$ GEPENC\$ WBCNST BNAMS NVGV\$ WBTOT I MGM\$ XMIS XRDP GNES NE CANADA PENSION PLAN MAX CONTRIB BARNINGS - ANNUAL RATE INV BUS NONRES CONST - NATIONAL ACCOUNTS PROV GOVT REVENUE - DIRECT TAXES PERSONAL INCOME FED GOVT REVENUE - DIRECT TAXES PERSONAL INCOME IMPORTS SERVICES PYMTS - INCOME PYMTS - WORLD WAGEBILL - AGRICULTURE, FISH & TRAPPING INDST UIB MAXIMUM INSURABLE EARNINGS - ANNUAL RATE UIB EMPLOYER/EMPLOYEE CONTRIBUTION RATE DEFLATOR CONS EXPND - GASOLINE OIL & GREASE EMPLOYMENT - AGRICULTURE, FISH & TRAP INDST EMPLOYMENT - TOTAL ECONOMY RESID CONST INVST - BUSINESS, TOTAL NAT. ACC PROV GOUT EXPND - TRNFS TO HOSPITALS PROV GOUT EXPND - TRNFS TO LOCAL GOUT TOTAL RDP, REAL DOMESTIC PRODUCT, TOTAL ECONOMY CORPORATION PROFITS BEFORE TAXES DEFLATOR CONS EXPND - ALCOHOLIC BEVERAGES INV BUS MACH & EQUIP - NATIONAL ACCOUNTS GROSS NATIONAL EXPND AT MARKET PRICES PROFITS OF GOVT BUS ENTERPRISES DEFLATOR CONS EXPND - TOBACCO IMPORTS TOTAL GOODS - WORLD CANADA PENSION PLAN - TOTAL OUEBEC PENSION PLAN - TOTAL GDP, FORESTRY INDUSTRIES WAGEBILL - CONSTRUCTION INVENTORY - GOVERNMENT MINING, TOTAL WAGEBILL - TOTAL GDP,

VARIABLES EXOGENOUS TO THE GOVERNMENT REVENUE BLOCK

GRDUMMY	GRDUMMY	GRDUM55	GRDUM57	GRDUM57	GRDUM61	GRDUM61	GRDUM61	GRDUM65	GRDUM67	GRDUM67	GRDUM68	GRDUM72	GRDUM72	GRDUM73	GRD1TUI	GRD2TUI	0.	GRF.IT.	GRF.IT.
																	& ESTATE DUTIES	EXCISE TAX	RT TAX
BLOCK	BLOCK	BLOCK	BLOCK	BLOCK	BLOCK	BLOCK	BLOCK	BLOCK	BLOCK	BLOCK	BLOCK	BLOCK	BLOCK	BLOCK	BLOCK	BLOCK	CESSION	GASOLINE	OIL EXPORT
REVENUE	REVENUE	REVENUE	REVENUE	REVENUE	REVENUE	REVENUE	REVENUE	REVENUE	REVENUE	REVENUE	REVENUE	REVENUE	REVENUE	REVENUE	REVENUE	REVENUE	TAXES SUCCES	TAXES GA	TAXES 0
GOVERNMENT	GOVERNMENT	GOVERNMENT	GOVERNMENT	GOVERNMENT	GOVERNMENT	GOVERNMENT	GOVERNMENT	GOVERNMENT	GOVERNMENT	GOVERNMENT	GOVERNMENT	GOVERNMENT	GOVERNMENT	GOVERNMENT	GOVERNMENT	GOVERNMENT	- DIRECT TA	- INDIRECT	- INDIRECT
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VARIABLE	VARIABLE	VARIABLE	VARIABLE	VARIABLE	VARIABLE	VARIABLE	VARIABLE	VARIABLE	VARIABLE	VARIABLE	VARIABLE	VARIABLE	VARIABLE	VARIABLE	VARIABLE	VARIABLE	GOVT REVENUI	GOVT REVENUI	GOVT REVENUI
DUMMY	DUMMY	DUMMY	DUMMY	DUMMY	DUMMY	DUMMY	DUMMY	DUMMY	DUMMY	DUMMY	DUMMY	DUMMY	DUMMY	DUMMY	DUMMY	DUMMY	FED G	FED G	FED G

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61 771 771 771 701 701 701 PCSE\$ GAS\$ OILX\$

WAF

GRP. TR. PEMIS\$ GRL.TR.PETL\$
GRP.DT.PCSE\$ GRH. TR. PETHS GRP.DT.PCVP\$ GTF.R.CUSTOM GRF.TR.PETF\$ GTP.R.D+GAS GTPC.R.CONT GRP.YI.ROY\$ GRF.IT.OTHS GRF.YI.ROYS GTP.R.HMED GTF.R.CORP GTF.R.DALC GTF.R.DCIG GTF.R.MSIM GTF.R.MSIR GTF.R.TCIG GTF.V.YLIM GTP.I.LIOP GTP.R.CORP GTP.R.RSTC GTP.R.RSTM GTPC.V.SCP GTP.R.MVL GTF.R.MSC GTP. V. SMV PROV GOVT REVENUE - DIRECT TAXES SUCCESSION & ESTATE DUTIES PROV GOVT REVENUE - DIRECT TAXES CONTRIBUTION VACATION PAY CDA PENSION PLAN EMPLOYER / EMPLOYEE CONTRIBUTIONS RATE CDA PENSION PLANS TO CDA & QUE PENSION PLANS INDEX OF LIQUOR CONTROL BOARD PROFITS PER UNIT OF CNF20 PROV GOVT REVENUE - TRANSFERS PERSONAL MISCELLANEOUS PROV GOVT REVENUE - INVESTMENT INCOME ROYALTIES EXCISE DUTY RATE ON STANDARD WT CIGARETTES
MANUF SALES TAX RATE ON CONSUMER GOODS
MANUF SALES TAX RATE ON MACH & EQUIP
MANUF SALES TAX RATE ON CONST MAT BUILDING SUPPLIES WEIGHTED AVERAGE MOTOR VEH LICENCE FEE - PROVINCIAL FED GOVT REVENUE - TRANSFERS PERSONS TO GOVERNMENT HOSPITAL INS & MEDICARE PREM ANNUAL SINGLE PERSON HOSPITAL REVENUE - TRANSFERS PERSONS TO HOSPITALS LOCAL GOVT REVENUE - TRANSFERS PERSONS TO LOCAL COMMERCIAL SHARE OF TOTAL VEHICLES LICENCE FEE RETAIL SALES TAX RATE CONS GOODS - PROVINCIAL RETAIL SALES TAX RATE MACHINERY - PROVINCIAL CORPORATE TAX RATE PROVINCIAL CALCULATED AVG WTD PROVINCIAL DIESEL AND GASOLINE TAX RATE UIB EARNING LIMIT FOR PARTICIPATION IN UIB EXCISE TAX RATE ON STANDARD WT CIGARETTES CORPORATE TAX RATE FEDERAL CALCULATED AVG REVENUE - INVST INCOME ROYALTIES EXCISE DUTY RATE BEER & ALCOHOL COMBINED REVENUE - INDIRECT TAXES OTHER CUSTOM DUTIES IMPLICIT OVERALL RATE FED GOVT FED GOVT

B B CRL.IT.PROP\$ + GRL.IT.OTH\$ B GRL.YI.REM\$ + GRL.YI.IPLA\$ = GEP.TLO\$ + GRL.YI\$ + GRL.YI\$ + GRL.YI\$ = GL.C\$ CS.CCA\$ - GEL.IN\$ B GRP.DT.PCVP\$ + GRP.DT.PCWC\$ + GRP.DT.PCPEN\$ + GP.DT.PCVP\$ + GRP.DT.PCWC\$ + GRP.DT.PCWC\$	B B B = GRP.DT.CCRP\$ + GRP.DT.CMLP\$	B GRP.IT.MV\$ * GTP.V.SMV B B B B B B B B B B B B B B B B B B B	B GRP.IT.MVS * (1.0 - GTP.V.SMV) = GRP.TR.PEMIS\$ + GRP.TR.PEHMI\$ + GRP.TR.PEMVR\$ B B B GRP.YI.ROY\$ + GRP.YI.IPLA\$ + GRP.YI.REM\$ = GEL.TPR\$ + GEF.TPR\$ + GRP.YI\$ + GRP.TR.PETP\$ + GRP.IT\$ + GRP.DT.C\$ + GRP.DT.P\$	= GRP\$ - GEP.C\$ = GSP\$ + GEP.CGS.CCA\$ - GEP.INV\$ = GDF.PR.EMUI * NE = GRF.DT.PINC\$ + GRF.DT.PCSE\$ + GRF.DT.PCPEN\$ + GRP.DT.PCUIS	B B GRF.DT.CCRP\$ + GRF.DT.CGOV\$ B GTF.R.CUSTOM * TMGW\$
GRL.IT.PROPS GRL.ITS GRL.YI.PLAS GRL.YI.PLAS GRL.YI.PLAS GRL.YI.PLAS GRL.YI.GRLS GRLS GRLS GRLS GRLS GRR.DT.PCWCS GRP.DT.PCPENS	GTF.V.PCT GRP.DT.CCRP\$ GRP.DT.CMLP\$ GRP.DT.C\$ C.RTV GRP.IT.MV\$	GRP.IT.GAS\$ GRP.IT.MVLS GRP.IT.HSTS GRP.IT.LIQPS GRP.IT.OTHS	GRP.TR.PEHMIS GRP.TR.PEMVRS GRP.YI.REMS GRP.YI.REMS GRP.YI.IPLAS GRP.YIS	GSP\$ CDP\$ CDP.PR.EMUI GDF.P.EMPUI GBF.P.T.PCUI\$ GRF.DT.PCPEN\$ GRF.DT.PF	GRF.DT.CGOV\$ GRF.DT.CCRP\$ GRF.DT.C\$ GRF.DT.C\$ GRF.TT.CUS\$
LOCAL GOUT REVENUE - INDIRECT TAXES PROPERTY LOCAL GOUT REVENUE - INDIRECT TAXES LOCAL GOUT REVENUE - INDIRECT TAXES LOCAL GOUT REVENUE - INVEST INCOME REM PROPIT GOV ENT LOCAL GOUT REVENUE - INVEST INCOME INTEREST, TOTAL LOCAL GOUT REVENUE - INVESTMENT INCOME LOCAL GOUT REVENUE - TOTAL GOVERNMENT SAVING - LOCAL GOVERNMENT SAVING - LOCAL GOVERNMENT DEFICIT - LOCAL PROV GOUT REVENUE - DIRECT TAXES CONT WORKMEN'S COMP PROV GOUT REV - DIRECT TAXES EMPR & EMP CONT TO GOV PENS PROV GOUT REV - DIRECT TAXES PERSONAL	CORPORATE TAXABLE INCOME - NET PROV GOVT REV - DIRECT TAXES CORPORATIONS PROV GOVT REV - DIRECT TAXES MINING & LOGGING PROFITS PROV GOVT REV - DIRECT TAXES CORP & GOVT BUS ENTER PROV GOVT REV - INDIRECT TAXES CORP & GOVT BUS ENTER PROV GOVT REV - INDIRECT TAXES MOTOR VEH LIC	PROV GOVT REV - INDIRECT TAXES GASOLINE PROV GOVT REV - INDIRECT TAXES MOTOR VEH LIC PROV GOVT REV - INDIRECT TAXES RETAIL SALES TAX PROV GOVT REV - INDIRECT TAXES LIQUOR BOARD PROFITS PROV GOVT REV - INDIRECT TAXES OTHER PROV GOVT REV - INDIRECT TAXES OTHER	PROV GOUT REV - TRANSFERS PERSONAL, HOSPITAL MED INS PROV GOUT REV - TRANSFERS PERSONS TO PROVINCES PROV GOUT REV - TRANSFERS PERSONS TO PROVINCES PROV GOUT REV - INVST INCOME REM PROFIT GOV ENT PROV GOUT REV - INVST INCOME INTEREST TOTAL PROV GOUT REV - INVESTMENT INCOME	GOVERNMENT SAVING PROVINCIAL GOVERNMENT DEFICIT - PROVINCIAL UI FUND - EMPLOYEE PARTICIPATION RATE UIB NUMBER OF EMPLOYED PERSONS COVERED BY UIC FED GOVT REV - DIRECT TAXES CONT UNEMP INSUR FED GOVT REV - DIRECT TAXES EMPR & EMPE CONT TO GOVT PENSUR FED GOVT REV - DIRECT TAXES PERSONAL	FED GOVT REV - DIRECT TAXES GOVT BUSINESS ENTERPRISES FED GOVT REV - DIRECT TAXES CORPORATIONS FED GOVT REV - DIRECT TAXES CORP & GOVT BUS ENTERPRISES FED GOVT REV - DIRECT TAXES NONRESIDENTS WITHHOLDING TAX FED GOVT REV - INDIRECT TAXES CUSTOMS DUTIES

VARIABLES ENDOGENOUS TO THE GOVERNMENT REVENUE BLOCK (BOTH BEHAVIOURAL & IDENTITIES)

B (CD\$ + CH\$ + CNH40\$ + CNP20\$ - CHE20\$ + (1 - GRDUM670N) * CNM40\$ - GRDUM73WAF * (CHC10\$ + CHC20\$ + CHC20\$) * 1.182158) / ((1 + GTF.R.MSC)	(1 + GTP.R.RSTC)) #F20 * ((PFCNF20) (1 + GTP.R.RSTC)) GTF.R.DALC + 0.55	.R.MSC) / 4.2598) / (PFCNF30 * 1.182158) / .R.RSTC) / 0.57723 * IG / (1 + GTF.R.MSC))	/ 0.42277) = CNT30 * ((PFCNT30 * 1.182158) / ((1 + GTF.R.MSC) * (1 + GTP.R.RSTC)) - 0.39315 * (GTP.R.D+GAS	= IBNAMS / ((1 + GTF.R.MSIM) * (1 + GTF.R.RSTM)	* (I + GIP.N.NSIC) / I.I.I.I. B = GRF.IT.CUS\$ + GRF.IT.EX\$ + GRF.IT.MSAL\$ + GRP.IT.GAS\$ + GRP.IT.OILX\$ + GRF.IT.OTH\$	B B GRF.YI.ROY\$ + GRF.YI.REM\$ + GRF.YI.IPLA\$ = GRF.YI\$ + GRF.TR.PETF\$ + GRF.IT\$ + GRF.DT.NR\$ + GRF.DT.C\$ + GRF.DT.P\$	= GRF\$ - GEF.C\$ = GSF\$ + GEF.CGS.CCA\$ - GEF.INV.CAPF\$ - INVGV\$ + INVGV\$(-1)	B GRENT.DT\$ * GRP.THO\$ + GRH.TR.PETH\$ + GRH.YI\$ = GRH\$ - GEH.CG\$ - CCA\$ - GEH.INV\$ = GRPENT.DT\$ * GTPC.V.SCP B GRPENT.DT\$ * (1 - GTPC.V.SCP) = GRPENQ.YI\$ + GRPENQ.DT\$ = GRPENQ.YI\$ + GRPENQ.DT\$ = GRPENQ.YI\$ + GRPENQ.DT\$ = GRPENG.YI\$ + GRPENQ.DT\$ = GRPENC\$ - GEPRNQ\$ = GRPENG\$ - GEPRNQ\$ = GRP.TT\$ + GRP.YI\$ + GRP.YI\$ + GRP.TR.PETP\$ + GRPENQ.YI\$ + GRP.NC.YI\$ - GRP.TT\$ + GRP.TT\$ + GRP.TT\$ - GRP.TR.PETP\$ - GRP.TT\$ + GRP.TT\$ + GRP.TT\$ - GRP.TT\$ - GRP.TT\$ - GRP.TT\$ + GRP.TT\$ + GRP.TT\$ - GRP.TT\$ - GRP.TT\$ - GRP.TT\$ - GRP.TT\$ - GRP.TT\$ - GRP.TT\$ - GRP.TT\$ - GRP.TT\$ - GRP.TT\$ - GRP.TT\$ - GRP.TT\$	
GRF.IT.EX\$ GTF.V.BASEC	GTF.V.BASEA	GTF.V.BASET	GTF.V.BASEG	GTF.V.BASEM	GRF.IT. MSALS GRF.ITS	GRF.VI.REM\$ GRF.YI.IPLA\$ GRF.YI\$	GSF\$	GRH, YIS GRHS GRHS GRHS GRHS GRPENC, DTS GRPENC, DTS GRPENC, OTS GRPENC, OTS GRPENC, OTS GRPENC, OTS GRPENC, ST GRPENC, ST GRPENC, ST GSPENCS	600
FED GOUT REV - INDIRECT TAXES ALCOHOL & TOBACCO MANUF SALES TAX BASE - CONSUMER GOODS	MANUF SALES TAX BASE - ALCOHOL	MANUF SALES TAX BASE - TOBACCO	MANUF SALES TAX BASE ~ GASOLINE	MANUF SALES TAX BASE - MACHINERY MANUF SALES TAX BASE - BUILDING MATERIAL		FED GOVT REV - INVST INCOME REM PROFIT GOV ENT FED GOVT REV - INVST INCOME INTEREST TOTAL FED GOVT REV - INVESTMENT INCOME FED GOVT REVENUE - TOTAL	GOVERNMENT SAVING FEDERAL GOVERNMENT DEFICIT ~ FEDERAL	HOSPITAL REVENUE - INVESTMENT INCOME HOSPITAL REVENUE - TOTAL GOVERNMENT SAVING - HOSPITAL GOVERNMENT DEFICIT - HOSPITAL CANADA & QUEBEC PENSION PLAN - CONTRIBUTIONS CANADA PENSION PLAN REV - CONTRIBUTIONS CANADA PENSION PLAN REV - ONTRIBUTIONS CANADA PENSION PLAN REV - TOTAL QUEBEC PENSION PLAN REV - TOTAL QUEBEC PENSION PLAN REV - TOTAL GOVERC PENSION PLAN N.A. ESTIMATE OF RESERVES - QUEBEC PENSION PLAN GOVT REVENUE - INVESTMENT INCOME GOVT REVENUE - INDIRECT TAXES, COMMODITIES GOVT REVENUE - INDIRECT TAXES, NONCOMMODITIES GOVT REVENUE - INDIRECT TAXES, NONCOMMODITIES GOVT REVENUE - INDIRECT TAXES, CORP GOVT GOVT REV - DIRECT TAXES CORP GOVT BUS ENTERPR GOVT REV - DIRECT TAXES CORP GOVT REV - TOTAL (EXCL INTERGOV TRANSFERS)	GOVERNMENT SAVING

Equation No.: 2722

Name: Local Government Revenue -- Indirect Taxes - Property Tax

Mnemonic: GRL.IT.PROP\$ Period: 1955-75

ln(GRL.IT.PROP\$)

$$R^2 = .998$$
 SEE = .024 D.W. = 1.710

Equation No.: 2723

Name: Local Government Revenue -- Indirect Taxes - Other

Mnemonic: GRL.IT.OTH\$ Period: 1955-75

GRL. IT. OTH\$

= + 9.57315 (0.43)

+ .00519501 GNE\$(-1) (18.34)

 $\overline{R}^2 = .976$ SEE = 28.436 D.W. = .589 RHO = .677

Equation No.: 1408

Name: Local Government Revenue -- Investment Income - Remittances from Government Enterprises

Mnemonic: GRL.YI.REM\$ Period: 1954-75

GRL.YI.REM\$

= - 13.22210 (1.73)

> + 11.21770 GRDUMMY75 (1.34)

+ .0624781 Y.PROFBT.GOVBE\$(-1) (2.67)

+ .073731 Y.PROFBT.GOVBE\$(-2) (3.15)

 $R^2 = .930$ SEE = 9.827 D.W. = .419 RHO = .708

Equation No.: 1461

Name: Local Government Revenue -- Investment Income - Loans and

Public Funds

Mnemonic: GRL.YI.IPLA\$ Period: 1954-75

GRL.YI.IPLA\$

= + 6.82011 (4.27)

+ sum(i=0,4)b(i) (FRATE.PROG.BOND(-i) * GRL\$(-i))

i	b(i)	t(i)	
0 1 2 3 4	+.0000752352 +.000276859 +.000352128 +.000301042 +.000123602	(0.83) (4.38) (3.91) (4.86) (0.84)	
sum	+.00112887	(14.53)	

$$\overline{R}^2 = .990$$
 SEE = 2.811 D.W. = 1.081 RHO = .534

Equation No.: 1468

Name: Provincial Government Revenue -- Direct Taxes - Contributions to

Workmen's Compensation

Mnemonic: GRP.DT.PCWC\$ Period: 1950-75

GRP.DT.PCWC\$ / (CPI * (NE - NAGFT1.21+41.7))

= + .011397 (6.87)

> + .0045756 ((WBTOT - WBAGFT1.21+41.7) (16.15)/ (NE - NAGFT1.21+41.7))

 $\overline{R}^2 = .961$ SEE = .002 D.W. = .636 RHO = .676

Equation No.: 1469

Name: Provincial Government Revenue -- Direct Taxes - Employer and

Employee Contributions to Government Pensions

Mnemonic: GRP.DT.PCPEN\$ Period: 1955-75

ln(GRP.DT.PCPEN\$)

= - 2.98746 (9.24)

+ 1.01610 ln(GEP.CGS.WS\$) (22.36)

 $\frac{-2}{R^2} = .989$ SEE = .0942 D.W. = .530 RHO = .679

Equation No.: 3020

Name: Corporate Taxable Income Net

Mnemonic: GTF.V.PCT

Period: 1955-75

GTF.V.PCT

+ sum(i=0,4)b(i) Y.PROFBT.CORP\$(-i)

 $\overline{R}^2 = .997$ SEE = 203.49 D.W. = 2.149

Equation No.: 2724

Name: Provincial Government Revenue -- Direct Taxes - Corporations

Mnemonic: GRP.DT.CCRP\$ Period: 1955-75

GRP.DT.CCRP\$

= + 47.4957 (5.96)

+ .927689 (GTF.V.PCT * GTP.R.CORP)

(116.75)

- 51.2775 GRDUM5556

(3.93)

- 34.8817 GRDUM5761

(3.76)

 $R^2 = .999$ SEE = 15.081 D.W. = 1.845

Equation No.: 2725

Name: Provincial Government Revenue -- Direct Taxes - Mining and

Logging Profits

Mnemonic: GRP.DT.CMLP\$ Period: 1955-74

GRP.DT.CMLP\$

= - 24.1395 (3.64)

> + .0265938 (XMI\$ + XFSTY31.9\$) (12.98)

 $\overline{R}^2 = .898$ SEE = 14.132 D.W. = 1.713

Equation No.: 2726

Name: Vehicle Registration -- Total - All Types

Mnemonic: C.RTV

Period: 1955-74

C.RTV - C.RPV

$$\overline{R}^2 = .989$$
 SEE = 49.633 D.W. = 2.572

Equation No.: 2727

Name: Provincial Government Revenue -- Total Motor Vehicle

Licence Fees

Mnemonic: GRP.IT.MV\$ Period: 1955-75

GRP. IT. MV\$

= + .160076 (0.05)

+ .958354 (GTP.R.MVL * C.RTV)
(89.08)

 $R^2 = .999$ SEE = 4.782 D.W. = .563 RHO = .495

Equation No .: 2728

Name: Provincial Government Revenue -- Indirect Taxes - Gasoline

Mnemonic: GRP.IT.GAS\$ Period: 1955-75

GRP. IT. GAS\$

= + .517636 (0.02)

+ .973656 (GTP.R.D+GAS * ((CNT30 + CNT30(-1)) (28.42) / 2) * 4.0672)

 $\overline{R}^2 = .992$ SEE = 36.680 D.W. = .444 RHO = .746

Equation No.: 2733

Name: Provincial Government Revenue -- Indirect Taxes - Retail

Sales Tax

Mnemonic: GRP.IT.RST\$ Period: 1954-75

GRP. IT. RST\$

= **- 114.**836 (6.75)

+ 1.42445 (GTP.R.RSTC * (CD\$ + CH\$ + CN\$ + CSP40\$ + CST40\$ (58.95) - CHE20\$ - CNF10\$ - CNR40\$ - CNR50\$ - CNR60\$ - GRDUM67ON * CNM40\$) / ((1 + GTP.R.RSTC) / 1.0555))

+ 1.04689 (GTP.R.RSTM * IBNAM\$ / ((1 + GTP.R.RSTM) / 1.0466)) (7.30)

+ 82.7341 GRDUM610FF (4.09)

 $\overline{R}^2 = .999$ SEE = 34.028 D.W. = 2.334

Equation No.: 2734

Name: Provincial Government Revenue -- Indirect Taxes - Liquor

Board Profit

Mnemonic: GRP.IT.LIQP\$ Period: 1955-75

GRP.IT.LIQP\$

= - 42.7620 (4.36)

+ .260378 CNF20\$ (49.11)

 $\overline{R}^2 = .997$ SEE = 12.316 D.W. = .826 RHO = .582

Equation No.: 2735

Name: Provincial Government Revenue -- Other Indirect Taxes

Mnemonic: GRP.IT.OTH\$ Period: 1954-75

GRP. IT. OTH\$

= - 63.2788 (7.13)

> + .00737062 GNE\$ (63.94)

 $R^2 = .995$ SEE = 20.803 D.W. = 1.344

Equation No.: 1476

Name: Provincial Government Revenue -- Transfers Personal - Hospital

Medical Insurance

Mnemonic: GRP.TR.PEHMI\$ Period: 1961-75

GRP. TR. PEHMI\$

= + 17.7409 (1.68)

+ .000639119 (GTP.R.HMED * DTOTLF)

(18.85)

+ 125.799 GRDUM680N

(5.75)

 $R^2 = .995$ SEE = 19.472 D.W. = 1.907

Equation No.: 1407

Name: Provincial Government Revenue -- Investment Income - Remittances

from Government Enterprises

Mnemonic: GRP.YI.REM\$ Period: 1954-75

GRP.YI.REM\$

+ sum(i=0,4)b(i) Y.PROFBT.GOVBE\$(-i)

 $R^2 = .984$ SEE = 8.760

D.W. = 1.671

Equation No.: 1480

Name: Provincial Government Revenue -- Investment Income - Loans and

Public Funds

Mnemonic: GRP.YI.IPLA\$ Period: 1954-75

GRP.YI.IPLA\$

i	b(i)	t(i)	
0 1 2 3 4	+.00197608 +.00152444 +.00122438 +.00107591 +.00107901	(11.55) (11.65) (7.02) (8.64) (3.32)	
sum	+.00687982	(39.68)	
	(2,5,NONE)		

$$\overline{R}^2 = .999$$
 SEE = 12.663 D.W. = 1.588

Equation No.: 1462

Name: Unemployment Insurance Fund -- Employee Participation Rate

Mnemonic: GDF.PR.EMUI Period: 1956-75

GDF.PR.EMUI

= + .687564 (23.48)

+ .063191

GRDUM67UI

(5.93)

- .0373631

GRDUMMY71

(2.63)

+ .140944

GRDUM720N

(3.78)

- .101050

((WBTOT / NE) / GTF.V.YLIM)

(2.41)

 $\frac{-2}{R^2} = .988$

SEE = .0123

D.W. = .907

Equation No.: 1486

Name: Federal Government Revenue -- Direct Taxes - Contributions to

Unemployment Insurance

Mnemonic: GRF.DT.PCUI\$

Period: 1956-75

GRF.DT.PCUI\$

= + 87.68080 (5.64)

> - .0289626 (GRD1TUI72 * GTF.C.MAXYC * GTF.R.CUIB (0.48) * GDF.P.EMPUI)

> + .206840 (GRD2TUI72 * GTF.C.MAXYC * GTF.R.CUIB (4.61) * GDF.P.EMPUI)

+ .525497 (GTF.C.MAXYC * GTF.R.CUIB * GDF.P.EMPUI) (16.93)

 $R^2 = .997$

SEE = 26.073

D.W. = 1.487

Equation No.: 1487

Name: Federal Government Revenue -- Direct Taxes - Employer and

Employee Contributions to Government Pensions

Mnemonic: GRF.DT.PCPEN\$ Period: 1956-75

GRF.DT.PCPEN\$

= - 53.88410 (6.43)

+ .192987 (GEF.CGS.NDWS\$ + GEF.CGS.DCWS\$ + GEF.CGS.DMP\$)

 $\overline{R}^2 = .997$ SEE = 12.763 D.W. = 1.291 RHO = .335

Equation No.: 1403

Name: Federal Government Revenue -- Direct Taxes - Government

Business

Mnemonic: GRF.DT.CGOV\$

Period: 1955-75

GRF.DT.CGOV\$ / Y.PROFBT.GOVBE\$

= -.0237435(0.72)

+ .0909746 GTF.R.CORP

(0.95)

+ .774435 (GRF.DT.CGOV\$(-1) / Y.PROFBT.GOVBE\$(-1))

(5.40)

 $\overline{R}^2 = .681$ SEE = .0127 D.W. = 1.687

Equation No.: 1491

Name: Federal Government Revenue -- Direct Taxes - Corporations

Mnemonic: GRF.DT.CCRP\$ Period: 1955-75

GRF.DT.CCRP\$ / GTF.V.PCT

= + .992372 (GRDUM5556 * GTF.R.CORP)

(118.38)

+ .963114 (GRDUM5771 * GTF.R.CORP)

(274.20)

+ 1.03778 (GRDUM7275 * GTF.R.CORP)

(128.67)

 $R^2 = .967$ SEE = .00509 D.W. = 1.678

Equation No.: 1493

Name: Federal Government Revenue -- Direct Taxes - Nonresident

Withholding

Mnemonic: GRF.DT.NR\$ Period: 1954-75

GRF.DT.NR\$

= + 14.5975 (1.86)

> + .0810751 (TMSINCPYW\$ - GRF.DT.NR\$) (5.86)

+ .0380983 ((TMSINCPYW\$ - GRF.DT.NR\$) * GRDUM610N)
(3.41)

 $\overline{R}^2 = .988$ SEE = 12.963 D.W. = 1.908

Equation No .: 2739

 $\begin{tabular}{lll} \underline{Name:} & Federal Government Revenue -- Indirect Taxes - Alcohol, \\ \hline & Tobacco, and Excise Duty Tax \\ \end{tabular}$

Mnemonic: GRF.IT.EX\$ Period: 1954-75

GRF.IT.EX\$

= + 97.9396 (1.90)

+ 1.13390 (.03766 * (GTF.R.TCIG + GTF.R.DCIG) * CNF30) (6.06)

+ 0.677718 (.02087 * GTF.R.DALC * CNF20) (4.65)

+ 33.2304 GRDUM61AUT (1.77)

 $R^2 = .993$ SEE = 19.681 D.W. = .973 RHO = .568

Equation No.: 2746

Name: Federal Government Revenue -- Indirect Taxes - Sales Tax

Mnemonic: GRF.IT.MSAL\$ Period: 1954-75

GRF.IT.MSAL\$

= + 297.977 (10.05)

+ .632725 ((GTF.V.BASEC + GTF.V.BASEA + GTF.V.BASET + GTF.V.BASEG) * GTF.R.MSC)

+ .275833 (GTF.R.MSIM * GTF.V.BASEM) (4.22)

+ 1.07200 (GTF.R.MSIR * GTF.V.BASEB) (15.66)

 $\overline{R}^2 = .998$ SEE = 39.589 D.W. = 1.603

Equation No.: 1406

Name: Federal Government Revenue -- Investment Income - Remittances

from Government Corporations

Mnemonic: GRF.YI.REM\$ Period: 1955-75

GRF.YI.REM\$

= - 30.1945 (2.42)

+ .509540 Y.PROFBT.GOVBE\$ (21.13)

 $\overline{R}^2 = .957$ SEE = 27.058 D.W. = 1.595

Equation No.: 1497

Name: Federal Government Revenue -- Investment Income - Loans and

Public Funds

Mnemonic: GRF.YI.IPLA\$ Period: 1955-75

GRF.YI.IPLA\$

i	b(i)	t(i)
0 1 2	+.000501273 +.00198791 +.00278669	(0.70) (6.51) (10.34)
3 4 5	+.00278669 +.00284429 +.00210741 +.000522724	(7.27) (5.95) (0.34)
sum	+.0107503	(13.75)
	(3,6,NONE)	

$$\overline{R}^2 = .998$$
 SEE = 25.425 D.W. = 1.392

Equation No.: 1504

Name: Hospital Revenue -- Investment Income

Mnemonic: GRH.YI\$ Period: 1961-75

GRH.YI\$

= + 1.16115 (3.02)

+ .000187283 (FRATE.PROG.BOND * GRH\$)
(4.65)

+ .159092 GRH.YI\$(-1) (0.75)

 $\overline{R}^2 = .948$ SEE = .680 D.W. = 1.189

Equation No.: 1498

Name: Canada and Quebec Pension Plan Revenue -- Contributions

Mnemonic: GRPENT.DT\$ Period: 1968-75

GRPENT.DT\$ / (DTOTLF * 0.9 * GTPC.R.CONT * GTPC.C.MPE)

= + .722608 (118.75)

> + .193322 (((WBTOT(-1) / NE(-1)) - GTPC.C.MPE(-1)) (7.69) / GTPC.C.MPE(-1))

 $\bar{R}^2 = .893$

SEE = .010

D.W. = 2.526

Equation No.: 1509

Name: Canada Pension Plan Revenue -- Interest Income

Mnemonic: GRPENC.YI\$ Period: 1967-75

GRPENC.YI\$

$$R^2 = .997$$
 SEE = 10.944

D.W. = 1.595

Equation No.: 1512

Name: Quebec Pension Plan Revenue -- Interest Income

Mnemonic: GRPENQ.YI\$ Period: 1967-75

GRPENQ.YI\$

+
$$sum(i=0,4)b(i)$$
 (FRATE.GBOND.10Y(-i) * GSPQ.FUND\$(-i))

i	b(i)	t(i)
0	+.00255835	(5.61)
1	+.00306028	(12.97)
2	+.00289143	(7.64)
3	+.00205180	(6.50)
4	+.000541375	(0.91)
sum	+.0111032	(29.82)
	(2,5,NONE)	

$$R^2 = .999$$
 SEE = 2.030 D.W. = 1.573

Equation No.: 3109

Name: Indirect Business Tax -- Commodities

Mnemonic: XIBTCD\$ Period: 1946-76

XIBTCD\$ - GRF.IT\$ + GRF.IT.OTH\$ - GRP.IT.GAS\$ - GRP.IT.LIQP\$
- GRP.IT.RST\$

= + 20.0779 (1.49)

+ .242651 (GRP.IT.OTH\$ + GRL.IT.OTH\$)
(21.13)

 $\overline{R}^2 = .973$ SEE = 21.517 D.W. = .288 RHO = .826

Equation No.: 3110

Name: Indirect Business Tax -- Noncommodities

Mnemonic: XIBTNCD\$ Period: 1946-76

XIBTNCD\$ - GRF.IT.OTH\$ - GRP.IT.MVL\$ - GRL.IT.PROP\$

= - 20.0781 (1.49)

> + .757345 (GRP.IT.OTH\$ + GRL.IT.OTH\$) (65.97)

 $\overline{R}^2 = .997$ SEE = 21.516 D.W. = .288 RHO = .826



PERSONAL INCOME TAX CALCULATOR

The personal income tax calculator in CANDIDE Model 2.0 simulates Canada's federal and provincial personal income tax system. There are a number of stochastic equations and identities that provide input to the calculator. The calculator performs three important tasks: (1) Given indexed tax brackets, quantile information on assessed income and on effective exemptions, the calculator computes the assessed income levels associated with each indexed tax bracket. (2) Given quantile information on assessed income, the calculator derives the mean, variance and displacement of the distribution of tax filers by assessed income. This information is used to compute the probability of a tax filer having assessed income between the intervals computed in (1). This probability distribution is combined with the total number of filers to derive the number of tax filers which fall within each assessed income interval. (3) Using indexed tax brackets and the assessed income for each tax bracket from (1), taxable income in excess of each indexed tax bracket is derived. Combining this with (2) we derive estimates of the basic federal tax. Given the effective (weighted) provincial tax rate (excluding Quebec) and the federal tax abatement rate, an estimate of provincial (net of Quebec) and federal tax accruals is computed. The computation for Quebec is similar to the procedure as outlined in steps (1), (2) and (3), however for Quebec the brackets are not indexed.

The tax calculator requires among other things the following: (1) the number of tax filers for Canada including Quebec and for Quebec separately, (2) assessed income (from this we derive mean assessed income and assessed income by quantile), (3) personal exemptions including the married exemption, the single exemption, and the upper limit of spouse's income, (4) effective exemptions by quantile, (5) deductions by quantile, (6) marginal tax rates by tax bracket for both Canada and Quebec.

We explain the total number of tax filers as a ratio to total population over the age of 14. Important right hand side variables which influence this are the ratio of female labour force to female population, cyclical variables (the unemployment rate), and the ratio of the single exemption (which is indexed) to average yearly income. As female participation in the labour force increases, the number of tax filers increases; as the single exemption relative to average yearly wage increases, the number of tax filers decreases; and as the unemployment rate increases, the number of tax filers decreases.

We explain the number of tax filers in Quebec as a simple logarithmic function of all tax filers in Canada.

This relationship has unitary elasticity. Assessed income for all tax filers is influenced by the components of personal income. These include dividend income, capital gains income, wage income, income of nonfarm unincorporated business, farm income, personal interest income, and that part of transfer income which is taxable (pension income, unemployment insurance benefits, and old age and guaranteed income security payments). These components are determined elsewhere in CANDIDE Model 2.0 except for capital gains and dividend income. Capital gain is exogenous, however dividend income is influenced by dividends paid to Canadian residents. The dividend tax credit depends upon dividend income and the effective rate associated with the dividend tax credit.

Once assessed income has been determined, mean assessed income is computed by dividing assessed income by the total number of tax filers. The quantile data for the assessed income distribution is derived from three logarithmic relationships which relate the 12.5%, the 50%, and the 97.5% quantiles to mean assessed income. Quantile data for the personal exemptions is derived from three stochastic equations which are influenced by the marriage exemption, the single exemption, and the upper limit of spousal income exemption. The quantile data for

effective exemptions is derived from three logarithmic relationships where the right hand side variables include the personal exemptions and deductions by quantile.

Deductions are related to the quantile data on assessed income.

Unlike the above relationships, the tax brackets, the single exemption, and the upper limit of spousal income are indexed by statute. The levels of these exemptions and brackets are determined in the indexation block.

There are a number of variables that are purely exogenous. These include the marginal tax rates by tax brackets for both Canada and Quebec, the federal abatement rate, the standard deduction, the employment expense deduction, the federal surcharge reduction rate, the minimum basic tax reduction associated with the surcharge reduction and the brackets associated with the surcharge reduction. At the provincial level a weighted average of provincial tax rates net of Quebec is also exogenous.

Let us now outline those calculations which the calculator performs. Assessed income for the ith tax

bracket is derived as follows. The difference between the quantile information on assessed income and on effective exemptions provides an estimate of taxable income for tax payers earning the minimum, the 12.5% quantile, the 50% quantile and the 97.5% quantile income. Using values of taxable income by quantile, the effective exemptions by quantile, and the indexed tax brackets, we obtain by linear interpolation an estimate of assessed income for the ith tax bracket.

The mean, variance and displacement of the assessed income distribution of all tax filers is derived from the quantile information associated with assessed income. Given assessed income at the 12.5%, the 50%, and the 97.5% quantiles, we derive the mean, variance and displacement of the assessed income distribution of all tax filers.

From the previous step we know the characteristics of the assessed income distribution of tax filers. Also we have an estimate of the assessed income corresponding to each tax bracket. Using numerical integration techniques, we obtain the percentage of tax filers having assessed income between the assessed income intervals derived in the previous step. The limits of integration are the assessed income intervals associated with tax bracket i and tax bracket i+1.

Using the indexed tax brackets and assessed income for the ith tax bracket, we develop an estimate of taxable income in excess of the ith indexed tax bracket. We also develop an estimate of taxable income in excess of the ith tax bracket for Quebec. One of the major differences in this second calculation is that Quebec tax brackets are not indexed by law.

Once we have on hand estimates of taxable income in excess of the ith indexed tax bracket, we use the marginal tax rates, the indexed tax brackets, and the income in excess of the ith tax bracket to compute basic federal tax by tax bracket. Once the basic federal tax by tax bracket is on hand, we apply the surcharge reduction rate to this distribution. In this procedure, we account for both the surcharge reduction rate by own tax bracket, the minimum reduction, and the maximum reduction. We also account for the OAS tax. The OAS tax is applied to taxable income by tax brackets to a maximum.

Using the distribution of tax filers by assessed income and estimates of the number of tax filers we derive totals for: (1) the basic federal tax, (2) the Quebec tax, (3) the surcharge reduction, and (4) the OAS tax. In computing the Quebec tax, we use information on the number of tax filers in Quebec and the Quebec distribution of assessed

income by tax filer, accounting for the years when the Quebec surtax was in effect.

Once the basic federal tax and the Quebec tax are on hand we use a weighted average of provincial tax rates (net of Quebec), the proportion of Quebec tax filers to total tax filers and the basic federal tax to compute provincial personal income tax net of Quebec. Total provincial taxes are obtained by combining Quebec taxes with provincial taxes net of Quebec. Federal taxes are obtained by applying the abatement rate to the basic federal tax, adding the OAS tax and subtracting the surcharge reduction.

The tax calculator produces three series: (1) provincial personal income tax for Quebec, (2) provincial personal income tax net of Quebec, and (3) federal personal income tax. These three series are calculated accruals.

They correspond to the data produced by Taxation Statistics. They are used separately as right hand side variables in three stochastic equations where the dependent variables are National Accounts concepts. These equations are run in logarithmic form with unitary elasticities. To account for recent provincial legislation we include the provincial personal tax credit in the regression linking National Accounts (net of Quebec) provincial personal tax to the tax calculator output.

VARIABLES DETERMINED OUTSIDE THE PERSONAL INCOME TAX CALCULATOR BLOCK

DELF14.24 DELF25.44 DELF25.44 DEPCP14.24 DEPCP14+ DEPCP25.44 DEPCP5.44 DEPCP65+ DMPCP65+ DMPCP65+	COPP. P. CAPART COPP. P. CAPART COS. DNAS GEF. TPE. CASS GEF. TPE. CASS GEF. TPE. CASS GEF. TPE. LASS GERENO, TPE. BENS GRENO, TPE. BENS GRATT. MAREX GR. T. WAREX GR. T. WAREX GR. T. VERRØ1 GR. V. V	WBTOT Y.DIVPCR\$ Y.FARM\$ Y.INT.PRSN\$ Y.NFARMUIB\$
FEMALE LABOUR PORCE - AGE GROUP 14-24 FEMALE LABOUR PORCE - AGE GROUP 25-44 FEMALE LABOUR PORCE - AGE GROUP 45 AND OVER FEMALE POPULATION - AGE GROUP 14-24 FEMALE POPULATION - AGE GROUP 14 AND OVER FEMALE POPULATION - AGE GROUP 25-44 FEMALE POPULATION - AGE GROUP 45 AND OVER FEMALE POPULATION - AGE GROUP 45 AND OVER MALE POPULATION - AGE GROUP 14 AND OVER MALE POPULATION - AGE GROUP 14 AND OVER MALE POPULATION - AGE GROUP 15 AND OVER	DED ARE SECURITY OFF. PED GOVT EXPRID — CURRAT FOR ESSIS, DEF WILLTRAY PAY FED GOVT EXPRID — CURRAT FOR ESSIS, ALL ALL SURVANCE FED GOVT EXPRID — TRANE TO PRING, ALL ALL SURVANCE FED GOVT EXPRID — TRANE TO PRING, ALL ALL SURVANCE CANADA PENSION PLAN — BENEFITS PAID URBERC PENSION PLAN — BENEFITS PAID PERSONAL INCOME TAX — MARRIED EXEMPTION PERSONAL INCOME TAX — MARRIED EXEMPTION PERSONAL INCOME TAX — PRICE INDEX — CUMULATIVE PERSONAL INCOME TAX — BASIC TAX — 13T TAXABLE INCOME BRYT PERSONAL INCOME TAX — BASIC TAX — 13T TAXABLE INCOME BRYT PERSONAL INCOME TAX — BASIC TAX — 13T TAXABLE INCOME BRYT PERSONAL INCOME TAX — BASIC TAX — 5TH TAXABLE INCOME BRYT PERSONAL INCOME TAX — BASIC TAX — 5TH TAXABLE INCOME BRYT PERSONAL INCOME TAX — BASIC TAX — 5TH TAXABLE INCOME BRYT PERSONAL INCOME TAX — BASIC TAX — 5TH TAXABLE INCOME BRYT PERSONAL INCOME TAX — BASIC TAX — 5TH TAXABLE INCOME BRYT PERSONAL INCOME TAX — BASIC TAX — 5TH TAXABLE INCOME BRYT PERSONAL INCOME TAX — BASIC TAX — 5TH TAXABLE INCOME BRYT PERSONAL INCOME TAX — BASIC TAX — 5TH TAXABLE INCOME BRYT PERSONAL INCOME TAX — BASIC TAX — 11TH TAXABLE INCOME BRYT PERSONAL INCOME TAX — BASIC TAX — 11TH TAXABLE INCOME BRYT PERSONAL INCOME TAX — BASIC TAX — 11TH TAXABLE INCOME BRYT PERSONAL INCOME TAX — BASIC TAX — 11TH TAXABLE INCOME BRYT PERSONAL INCOME TAX — BASIC TAX — 11TH TAXABLE INCOME BRYT PERSONAL INCOME TAX — BASIC TAX — 15TH TAXABLE INCOME BRYT PERSONAL INCOME TAX — BASIC TAX — 15TH TAXABLE INCOME BRYT PERSONAL INCOME TAX — BASIC TAX — 15TH TAXABLE INCOME BRYT PERSONAL INCOME TAX — BASIC TAX — 15TH TAXABLE INCOME BRYT PERSONAL INCOME TAX — BASIC TAX — 15TH TAXABLE INCOME BRYT PERSONAL INCOME TAX — BASIC TAX — 15TH TAXABLE INCOME BRYT PERSONAL INCOME TAX — BASIC TAX — 15TH TAXABLE INCOME BRYT PERSONAL INCOME TAX — BASIC TAX — 15TH TAXABLE INCOME BRYT PERSONAL INCOME TAX — BASIC TAX — 15TH TAXABLE INCOME BRYT PERSONAL INCOME TAX — BASIC TAX — 15TH TAXABLE INCOME BRYT PERSONAL INCOME TAX — BASIC TAX — 15TH TAXABLE INCOME BRYT	MAGEBIL - TOTAL DIVIDENDS PAID TO CANADIAN RESIDENTS ACRUED NET INCOME OF FAMM OPERATORS FROM FARM PROD INTEREST INCOME - PERSONS NET INCOME OF NON-FARM UNINCORPORATED BUSINESS

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GR.R.ABAT GR.R.ASINT GR.R.ASONW GR.R.ASOAP GR.R.AST GR.R.ASW GR.R.DEDI	R.DED3 R.DIV R.OASD R.SURQ R.YATBG R.YMTBG R.YMTBG R.YMTBG	GR. R. YMT989 GR. R. YMT919 GR. R. YMT911 GR. R. YMT911 GR. R. YMT914 GR. R. YMT915 GR. R. YMT915 GR. R. YMT916 GR. R. YMT916 GR. R. YMT916 GR. R. YMT903 GR. R. YMT903 GR. R. YMT903 GR. R. YMT904 GR. R. YMT906 GR. R. YMT910 GR. R. YMT910 GR. R. YMT910 GR. R. YMT910 GR. R. YMT911
AVG AATEMENT AGE AATEMENT AGE INCOME GE SCULNITY FER INCOME INCOME INCOME E 125 INCOME E 125 INCOME	- EFF RATE FRACTION OF PED RATE MARGINAL TAX RATE TAX RATE PACTOR FOR DIVIDENDS RATE FOR IST BRKT	T. T
ARABEMENT - WGTER DAG ARATE ASSESS RATIO INTREST & MIS ASSESS RATIO NON-WAGE INCOM ASSESS RATIO OF AGE SECURI ASSESS RATIO OF AGE SECURI ASSESS RATIO WAGE INCOM DEDUCTIONS/QUANTILE 125 INCOM DEDUCTIONS/QUANTILE 25 INCOM	RND TAX CREDIT W. CREDIT QUE "SE & SOC DEV "PROV OF QUE "MCTD AVG PROY TAX - MACD BRY TAX - AND BRY TAX	TAX - 8TH BRKT TAX - 10TH BRKT TAX - 10TH BRK TAX - 13TH BRK TAX - 13TH BRK TAX - 15TH TAX - 15TH TAX - 15TH TAX - 15TH TAX - 16TH TAX - 18TH
INCOME TAX - ASBA INCOME TAX - ASS INCOME TAX - DED INCOME TAX - DED INCOME TAX - DED	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7
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VARIABLES EXOGENOUS TO THE PERSONAL INCOME TAX CALCULATOR BLOCK

GR.T.STAND GR.T.YGAIN\$ GR.T.YGAIN\$ GRP.DT.PRTC\$ GR.V.OASDBR GR.V.YBRED1 GR.V.YBRED2 GR.V.YBRED3 GR.V.YBRED4 GR.T. EMPEX GR.R.YRED4 GRD72730N GRTD6 20FF GRTD6061 GRTD680N GRTD720N GRTD7 40N GRTD72 GRTD74 GRTD61 PERS INC TAX-SURTAX & RED-MANG RATE APPL TO BASIC TAX INT 3
PERS INC TAX-SURTAX & RED-MANG RATE APPL TO BASIC TAX INT 4
DEDUCTION - EMPLOYMENT EXPENSE
PERS INCOME TAX - STANDAX RED - MIN BASIC TAX RED
PERS INCOME TAX - STANDAXD DEDUCTION
PERS INCOME TAX - STANDAXD ABOUNCTION PERS INCOME TAX - OLD AGE & SOC DEV-ASSESSED INCOME BRKT PERS INCOME TAX - SURTAX & RED - 1ST BASIC TAX BRKT PERS INCOME TAX - SURTAX & RED - 2ND BASIC TAX BRKT PERS INCOME TAX - SURTAX & RED - 3RD BASIC TAX BRKT PERS INCOME TAX - SURTAX & RED - 4TH BASIC TAX BRKT DUMMY VARIABLE - GOVT REVENUE (INCOME TAX) BLOCK PROV GOVT REVENUE - DIRECT TAXES - PERS TAX CREDITS BLOCK BLOCK BLOCK BLOCK BLOCK BLOCK BLOCK BLOCK DUMMY VARIABLE - GOVT REVENUE (TAX) BLDUMMY VARIABLE - GOVT REVENUE (TAX) (TAX) REVENUE GOVT NUMBER OF BRACKETS

VARIABLE

DUMMY

医内皮皮皮皮皮皮皮皮皮皮皮皮皮皮皮皮皮皮皮

82 82 83	= GR.T.YAS\$ / GR.T.NFIL B B	= GR.R.DIVQ * GR.T.DIVC * GR.T.NFILQ / GR.T.NFIL	ക മ	. 20	= GR.T.SINGEX	æ	ca)	CO	= GR.T.STAND + GR.T.EMPEX	= GR.R.DED1 * GR.T.Q125	= GR.R.DED2 * GR.T.Q500	= GR.R.DED3 * GR.T.0975	æ	æ	æ	മ
GR.T.NFIL GR.T.NFILQ GR.T.YAS\$	GR.T.MEY\$ GR.T.DIV\$	GR.T.DIVQ	GR.T.0125	GR.T.0975	GR.T.PEXØ	GR.T.PEX1	GR.T.PEX2	GR.T.PEX3	GR. T. DEDØ	GR.T.DED1	GR.T.DED2	GR.T.DED3	GR.T.TEFØ	GR.T.TEF1	GR.T.TEF2	GR.T.TEF3
PERS INCOME TAX - NUMBER OF TAX RETURNS FILED PERS INCOME TAX - QUEBEC - NO OF TAXFILERS IN QUE PERS INCOME TAX - TOTAL INCOME ASSESSED, ALL RETURNS	MEAN ASSESSED INCOME - ALL TAX FILERS DIVIDED INCOME CLAIMED - ALL TAX FILERS DEPOS INCOME TAX DIVIDED TAX DIVIDED TAXONE TAX DIVIDED TAXONE TAX DIVIDED TAXONE TAXONE TAXONE TAXONE TAXONE TAXONE TAXONE TAXONE TAXONE TAX	DIVIDEND TAX CREDIT - QUEBEC	QUANTILE 125 - ALL TAX FILERS - ASSESSED INCOME DIST OUANTILE 500 - ALL TAX FILERS - ASSESSED INCOME DIST	ALL TAX FILERS - ASSESSED INCOME	PERS EXEMPTIONS - ALL TAX FILERS - MINIMUM	PERS EXEMPTIONS - ALL TAX FILERS - AVG AT QUANTILE 125		PERS EXEMPTIONS - ALL TAX FILERS - AVG AT QUANTILE 975	DEDUCTIONS - ALL TAX FILERS - MINIMUM	TAX FILERS -	TAX	DEDUCTIONS - ALL TAX FILERS - AVG AT QUANTILE 975	EFFECTIVE EXEMPTIONS - ALL TAX FILERS - MINIMUM	EFF EXEMPTIONS - ALL TAX FILERS - AVG AT QUANTILE 125	EFF EXEMPTIONS - ALL TAX FILERS - AVG AT QUANTILE 500	EFF EXEMPTIONS - ALL TAX FILERS - AVG AT QUANTILE 975

VARIABLES ENDOGENOUS TO THE PERSONAL INCOME TAX CALCULATOR BLOCK (BOTH BEHAVIOURAL & IDENTITIES)

I=0,3 I=125,500,975 I=01,GR.V.N I=01,GR.V.N [TO:PROB,MYE,QUEBEC]	I=125,500,975 [TO:PROB,QUEBEC]		[FROM:PARM] I=01, GR.V.N [FROM:FNDYB] [TO:QUEBEC,TOTALS]		I=01, GR.V.N [FROM:FNDYB] I=01, GR.V.N [TO:QUEBEC] [TO:QUEBEC] [TO:QUEBEC]
B GR.T.TEFFØ,GR.T.QI B GR.V.YBRI I GR.V.YASBRI E GR.V.N	B GR.T.QI		I GR.V.YASBRI E GR.V.N = GR.T.Q975		I GR.V.YASBRI E GR.V.YBRI = GR.V.YBRI
TE(4) YD(4) BR(GR.V.N) U(GR.V.N) KK(1)	QD(3)		PM (3) U (GR.V.N) KK (1) FF (GR.V.N) YD [4] (4)		U (GR.V.N) KK (1) BR (GR.V.N) G (GR.V.N) GG (GR.V.N) AD (GR.V.N)
EFF EXEMPTIONS, MINIMUM & BY QUANTILE ASSESSED INCOME BY QUANTILE TAX BRACKETS ASSESSED INCOME FOR TAX BRACKET I NUMBER OF TAX BRACKETS	CALL PARM ASSESSED INCOME TO QUANTILE STANDARD DEV, MEAN, DISPLACEMENT FOR DISTRIBUTION OF TAX FILERS BY ASSESSED INCOME	CALL PROB	STANDARD DEV. MEAN, DISPLACEMENT FOR DIST OF TAX FILERS BY ASSESSED INCOME ASSESSED INCOME FOR TAX BRACKET I NUMBER OF TAX BRACKETS FROBABILITY OF HAVING ASSESSED INCOME IN INTERVAL [U(I), U(I+1)] ASSESSED INCOME FOR QUANTILE .975	CALL MYE	ASSESSED INCOME FOR TAX BRACKET I NUMBER OF TAX BRACKETS TAX BRACKETS GEOMETRIC MEAN [(U(I)-BR(I)),(U(I+1)-BR(I+1))] GEOMETRIC MEAN [U(I),U(I+1)] TAXABLE INCOME IN EXCESS OF TAX BRACKET I

[FROM:MYE] I=01, GR.V.N [FROM:PROB]	[FROM:MYE] I=01,GR.V.N [FROM:FNDYB] [FROM:MYE]	I=125,500,975 I=01,GR.V.N [TO:BASTAX] [TO:TOTALS]	[TO:BASTAX] [FROM:PARM]
B GR.V.YBRI	I GR.V.YASBRI E GR.V.N B GR.T.PINDEX	B GR.T.TEFØ,GR.T.QI I=125,500,975 I GR.V.YASBRQI I=01,GR.V.N = [TO:BASTAX] = [TO:TOTALS]	
GG (GR.V.N) BR (GR.V.N) FF (GR.V.N)	G(GR.V.N) U(GR.V.N) AD(GR.V.N) KK(1)	YD(4) YQ(GR.V.N) GGQ(GR.V.N) BRQ(GR.V.N) FFQ(GR.V.N)] GQ(GR.V.N) ADQ(GR.V.N) I(1) PM(3)
GEOMETRIC MEAN [U(I),U(I+1)] TAX BRACKETS PROBABILITY OF HAVING ASSESSED INCOME IN INTERVAL [U(I),U(I+1)]	GEOMETRIC MEAN [(U(I)-BR(I)),(U(I+1)-BR(I+1))] ASSESSED INCOME FOR TAX BRACKET I TAXABLE INCOME IN EXCESS OF TAX BRACKET I NUMBER OF BRACKETS INDEXATION SERIES	ASSESSED INCOME BY QUANTILE ASSESSED INCOME FOR TAX BRACKET I - QUEBEC GEOMETRIC MEAN[YQ(I)-YQ(I+1)] TAX BRACKETS - QUEBEC PROBABILITY OF HAVING ASSESSED INCOME IN INTERVAL [YQ(I)-YQ(I+1)]	GEOMETRIC MEAN ((YQ(T)-BRQ(I+1)-BRQ(I+1))] GQ(GR.V.N) TAXABLE INCOME IN EXCESS OF BRACKET I ADQ(GR.V.N) TREND STANDARD DEV MEAN, DISPLACEMENT FOR DIST OF TAX FILERS BY ASSESSED INCOME

CALL BASTAX

I=01, GR.V.N I=01, GR.V.N [FROM:MYE] [TO:SURTAX,TOTALS] [TO:SURTAX]	[FROM:BASTAX] I=1,4 I=1,4 [FROM:BASTAX] [FROM:BASTAX]	,		I=01, GR.V.N [FROM:MYE] [TO:TOTALS]
E GR.R.YMTBI B GR.V.YBRI E GR.V.N	E GR.V.YBREDI E GR.R.YREDI E GR.T.REDMIN	E GR.V.N		E GR.V.N E GR.V.ASD E GR.V.ASDB E GR.V.ASBB B GR.V.YBRI
MT (GR.V.N) BR (GR.V.N) AD (GR.V.N) AD (GR.V.N) TB (GR.V.N) T (GR.V.N)	T(GR.V.N) TZ(4) TX(4) TX(4) TB(GR.V.N) TMIN(1) TT(GR.V.N) TR(GR.V.N)	MR (GR.V.N) KR (1)		I(1) KK(1) OAT(1) YNOA(1) BR(GR.V.N) AD (GR.V.N) OASD (GR.V.N) VP(GR.V.N)
MARGINAL TAX RATE FOR ITH BRACKET TAX BRACKETS TAXABLE INCOME IN EXCESS OF TAX BRACKET I UNMBER OF BRACKETS BRACKET POINT TAX + EXCESS BRACKET POINT TAX CALL SURTAX	BRACKET POINT TAX TAX BRACKET - SURTAX MARGINAL RATE - SURTAX BRACKET POINT TAX + EXCESS BIANNUMUM BASIC TAX - SURTAX TAX REDUCTION OR INCREASE AT BASIC TAX BRACKET POINT (T) TAX BRACKET POINT (T) TAX BRACKET POINT (T) TAX BRACKET POINT (T)	MARGIAL RATE SURTAX ON BASIC TAX INTERVALS NUMBER OF BRACKETS	CALL DASTAX	TREND WUMBER OF BRACKETS MARGINAL TAX RATE - OLD AGE SECURITY ASSESSED INCOME BRACKET - OLD AGE SECURITY TAX BRACKETS TAX BEE INCOME IN ACCESS OF BRACKET I OASD TAX AT BRACKET POINT I (INCLUDING EXCESS) OASD TAX AT BRACKET POINT I

I=Øl, GR.V.N [FROM:QUEBEC] [FROM:QUEBEC]	[TO:TOTALS]		[FROM:PROB]	[FROM:OASTAX]	[FROM: BASTAX]	[FROM:QUEBEC]	[FROM:BASTAX]			[TO MODEL]	[TO MODEL]		
E GR.R.YMTQI	= E GR.V.N		I GR.T.DIVQ B GR.T.DIVC B GR.T.NFIL	н	= = B GR.T.NFILQ E GR.V.N		E GR.R.SURQ	E GR.R.TPROV E GR.R.ABAT		= TIME - 59 = GR.T.PROVQ = GR.T.PROV	= GR.T.FED	æ	Ω.
MTQ (GR.V.N) BRQ (GR.V.N) ADQ (GR.V.N)	TBQ (GR.V.N) TQ (GR.V.N) KR (1)		DIVQ(1) DIV(1) NF(1) FF(GR.V.N)	OASD(GR.V.N) TR(GR.V.N)	BAS(GR.V.N) TB(GR.V.N) TNQ(1) KR(1)	PPQ (GR.V.N)	TBQ(GR.V.N) CNT(1)	TPROV(1) ABAT(1) TNF(GR.V.N) TY(GR.V.N)	TXF(GR.V.N) SD(1) SR(1) TBASE(1) TOF(GR.V.N)	I(1) TBAQE(1) SPR(1) PROV(1)	FED(1) TOT(1) GRP.DT.PROV\$	GRP.DT.PROVQ\$	GRF.DT.PINC\$
MARGINAL TAX RATE FOR ITH BRACKET (QUEBEC) TAX BRACKET (QUEBEC) TAXABLE INCOME IN EXCESS OF TAX BRACKET I	BRACKET POINT TAX + EXCESS BRACKET POINT TAX NUMBER OF BRACKETS	CALL TOTALS	DIVIDEND TAX CREDIT - QUEBEC DIVIDEND TAX CREDIT - CANADA NUMBER OF FILERS FORBALLITY OF HAVING ASSESSED INCOME TN INTERNAL (11(1) 11(1) 11(1) 11	OASD TAX REDUCTION OR INCREASE IN BASIC TAX BRACKET DATAM (MAIN)	TOTAL BASIC TAX ACCRUED BRACKET I BRACKET POINT TAX + EXCESS NUMBER OF FILERS QUEBEC	PROBABILITY OF HAVING ASSESSED INCOME IN INTERVAL [U(1), U(1+1)]	BRACKET POINT TAX + EXCESS SURTAX & HOSPITAL TAX RATE QUEBEC PROVINCIAL TAX RATE, WEIGHTED AVERAGE - NET	OF QUEBEC TAX ABATEMENT RATE DISTRIBUTION OF TAX FILERS BY ASSESSED INCOME TOTAL OASD TAX ACCRUED BRACKET I	TOTAL SURMATION OASD TAX BRACKET SUMMATION OASD TAX BRACKET SUMMATION SURTAX REDUCTION BRACKET SUMMATION BASIC TAX TOTAL QUEBEC TAX ACCRUED BRACKET I	TREND QUEBEC TAX PROVINCIAL TAX NET OF QUEBEC PROVINCIAL TAX	FEDERAL TAX FEDERAL & PROVINCIAL TAX PROVINCIAL GOVT REVENUE, DIRECT TAX PROFINCIAL MOT OF OFFICE	FERSONAL MEI OF UGEBEC PERSONAL, QUEBEC	FEDERAL GOVT REVENUE, DIRECT TAX PERSONAL

CALL BASTAX

= GRP.DT.PROV\$ + GRP.DT.PROVQ\$ = GRF.DT.PINC\$ + GRP.DT.PINC\$ = GRP.DT.PINC\$ / GR.DT.PINC\$ = GR.DT.PINC\$ / PY\$

COME GRP.DT.PINC\$
GR.DT.PINC\$
GRP.DT.RATE
GR.DT.RATE

PROV GOVT REVENUE, DIRECT TAXES PERSONAL INCOME GOVT REVENUE, DIRECT TAXES PERSONAL INCOME PROV GOVT REVENUE, DIRECT TAXES RATE GOVT REVENUE, DIRECT TAXES RATE

Equation No.: 3114

Name: Total Number -- All Tax Filers

Mnemonic: GR.T.NFIL Period: 1956-75

GR.T.NFIL / (DMPOP14+ + DFPOP14+)

+ .486876
(3.77)

+ .644376 ((DFLF14.24 + DFLF25.44 + DFLF45+) / DFPOP14+)

(2.48)

- .525699 (GR.T.SINGEX / (WBTOT / NE))

(2.62)

+ .0663468 GRTD720N

(4.65)

+ .0104230 GRTD620FF

(1.70)

- .0047935 DURATE

(3.42)

 $R^2 = .978$ SEE = .01198 D.W. = .185 RHO = .852

Equation No.: 3115

Name: Total Number of All Tax Filers -- Quebec

Mnemonic: GR.T.NFILQ Period: 1960-75

ln(GR.T.NFILQ)

= - .901007 (3.58)

+ .947141 ln(GR.T.NFIL) (34.00)

 $\overline{R}^2 = .993$ SEE = .02032 D.W. = .182 RHO = .802

Equation No.: 3116

Name: Assessed Income -- All Tax Filers

Mnemonic: GR.T.YAS\$ Period: 1956-75

GR.T.YAS\$

- = GR.T.DIV\$ + GR.T.YGAIN\$
 - + GR.R.ASW * ((WBTOT (1 GRTD720N)) * GEF.CGS.DMP\$)
 - + GR.R.ASNW * (Y.NFARMUIB\$ + Y.FARM\$)
 - + GR.R.ASINT * (Y.INT.PRSN\$ + TESPERRMW\$ TESPERRMWADJ\$)
 - + GR.R.ASTR * (GEPENC.TPE.BEN\$ + GEPENQ.TPE.BEN\$
 - + GRTD72ON * GEF.TPE.UIB\$ + GRTD74ON * GEF.TPE.FAYA\$)
 - + GR.R.ASOAP * (GEF.TPE.OAS\$ GRTD68ON * (35.4939 + .78945
 - * GDF.P.OAPART * (DMPOP65+ + DFPOP65+) * GDF.P.GISPART
 - * GTF.R.GISS))

Equation No.: 3118

Name: Dividend Income Claimed -- All Tax Filers

Mnemonic: GR.T.DIV\$ Period: 1956-75

ln(GR.T.DIV\$)

= - .292528 (0.68)

- .682248 GRD72730N

(5.22)

+ .993464 ln(GR.R.YADIVG * Y.DIVPCR\$)

(14.85)

 $\overline{R}^2 = .966$ SEE = .0946 D.W. = 1.645

Equation No.: 3120

Name: Dividend Tax Credit -- All Tax Filers

Mnemonic: GR.T.DIVC Period: 1960-75

GR.T.DIVC

= - 2.59104 (0.43)

- .946259 (GR.R.DIV * GR.T.DIV\$) (28.12)

 $\overline{R}^2 = .990$ SEE = 6.2223 D.W. = .392 RHO = .778

Equation No.: 3125

Name: Quantile .125 -- All Tax Filers -- Assessed Income Distribution

Mnemonic: GR.T.Q125 Period: 1960-75

ln(GR.T.Q125)

= - 1.23142 (8.90)

+ .794722 ln(GR.T.MEY\$)
(9.44)

 $R^2 = .855$ SEE = .097 D.W. = 2.163

Equation No.: 3126

Name: Quantile .500 -- All Tax Filers -- Assessed Income Distribution

Mnemonic: GR.T.Q500 Period: 1960-75

ln(GR.T.Q500)

= - .0361951 (2.47)

+ .898677 ln(GR.T.MEY\$)
(100.71)

 $R^2 = .999$ SEE = .010286 D.W. = 1.152

Equation No.: 3127

Name: Quantile .975 -- All Tax Filers -- Assessed Income Distribution

Mnemonic: GR.T.Q975 Period: 1960-75

ln(GR.T.Q975)

= + .962881 (12.86)

+ 1.02763 ln(GR.T.MEY\$)

 $\overline{R}^2 = .986$ SEE = .03814 D.W. = .918 RHO = .473

Equation No.: 3130

Name: Personal Exemptions -- All Tax Filers -- Average at

Quantile .125

Mnemonic: GR.T.PEX1 Period: 1960-75

ln(GR.T.PEX1)

= + .864382 (9.78)

> + .385863 ln((GR.T.MAREX - GR.T.SINGEX) (4.15)* (GR. T. MARUPL / GR. T. Q125))

+ .718742 ln((GR.T.MAREX - GR.T.SINGEX)

(10.78)* ((DFLF14.24 + DFLF25.44 + DFLF45+) / (DFPOP14.24 + DFPOP25.44 + DFPOP45+)))

- .0152400 GRTD6061 (0.29)

 $\bar{R}^2 = .961$

SEE = .050 D.W. = 2.139

Equation No.: 3131

Name: Personal Exemptions -- All Tax Filers -- Average at

Quantile .500

Mnemonic: GR.T.PEX2 Period: 1960-75

ln(GR.T.PEX2)

= + 1.46550 (50.32)

> + .610122 ln((GR.T.MAREX - GR.T.SINGEX) (18.31) * (GR.T.MARUPL / GR.T.Q500))

+ .266371 ln((GR.T.MAREX - GR.T.SINGEX)

(12.78) * ((DFLF14.24 + DFLF25.44 + DFLF45+) / (DFP0P14.24 + DFP0P25.44 + DFP0P45+)))

- .0330403 GRTD6061 (1.95)

 $R^2 = .986$ SEE = .018 D.W. = 1.701

Equation No.: 3132

Name: Personal Exemptions -- All Tax Filers -- Average at

Quantile .975

Mnemonic: GR.T.PEX3 Period: 1960-75

ln(GR.T.PEX3)

= + 2.07571 (30.13)

+ .329522 ln((GR.T.MAREX - GR.T.SINGEX) (9.80) * (GR.T.MARUPL / GR.T.Q975))

+ .405515 ln((GR.T.MAREX - GR.T.SINGEX) (15.87) * ((DFLF14.24 + DFLF25.44 + DFLF45+)

* ((DFLF14.24 + DFLF25.44 + DFLF45+) / (DFPOP14.24 + DFPOP25.44 + DFPOP45+)))

- .044666 GRTD6061 (2.71)

 $R^2 = .985$ SEE = .018 D.W. = 0.891 RHO = .505

Equation No.: 3137

Name: Effective Exemptions -- All Tax Filers -- Minimum

Mnemonic: GR.T.TEF0 Period: 1960-75

ln(GR.T.TEF0)

= - .631310 (309.81)

> + .109995 ln(GR.T.PEX0 + GR.T.DED0) (17.63)

 $\overline{R}^2 = .968$ SEE = .0062 D.W. = .635 RHO = -.262

Equation No.: 3138

Name: Effective Exemptions -- All Tax Filers -- Average at 1st Quantile

Mnemonic: GR.T.TEF1 Period: 1960-75

ln(GR.T.TEF1)

= - .255131 (3.72)

+ .836787 ln(GR.T.PEX1 + GR.T.DED1)

(5.93)

- .289289 GRTD61

(3.15)

- .238652 GRTD72

(2.51)

 $R^2 = .852$ SEE = .10106 D.W. = 1.387 RHO = .394

Equation No.: 3139

Name: Effective Exemptions -- All Tax Filers -- Average at 2nd Quantile

Mnemonic: GR.T.TEF2 Period: 1960-75

ln(GR.T.TEF2)

= + .437192 (21.89)

+ .166800 ln(GR.T.DED2)

(22.77)

+ .862507 ln(GR.T.PEX2)

(41.36)

 $R^2 = .999$ SEE = .006654 D.W. = 1.028 RHO = .476

Equation No.: 3140

Name: Effective Exemptions -- All Tax Filers -- Average at 3rd Quantile

Mnemonic: GR.T.TEF3 Period: 1960-75

ln(GR.T.TEF3)

= + .587571 (13.64)

+ .304744 ln(GR.T.DED3) (17.07)

+ .758226 ln(GR.T.PEX3) (17.03)

 $R^2 = .994$ SEE = .021 D.W. = .229 RHO = .834

Equation No.: 3275

Name: Provincial Government Revenue -- Direct Taxes Net of Quebec -- Personal Income Tax

Mnemonic: GRP.DT.PROV\$ Period: 1962-75

ln(GRP.DT.PROV\$ + GRP.DT.PRTC\$)

= - .0717068 (0.65)

+ 1.00996 ln(GR.T.PROV) (63.71)

 $\overline{R}^2 = .997$ SEE = .0508 D.W. = 1.177

Equation No.: 3274

Name: Provincial Government Revenue -- Direct Taxes Quebec --

Personal Income Tax

Mnemonic: GRP.DT.PROVQ\$ Period: 1960-75

ln(GRP.DT.PROVQ\$)

= - .565071 (3.47)

+ 1.09657 ln(GR.T.PROVQ)
(41.83)

 $\overline{R}^2 = .991$ SEE = .11769 D.W. = 2.330

Equation No.: 1489

Name: Federal Government Revenue -- Direct Taxes -- Personal Income Tax

Mnemonic: GRF.DT.PINC\$ Period: 1960-75

ln(GRF.DT.PINC\$)

- .060684 (0.58)

> + 1.01007 ln(GR.T.FED) (79.76)

+ .0799223 GRTD74 (2.46)

 $\overline{R}^2 = .998$ SEE = .0293 D.W. = 1.928



PERSONAL DISPOSABLE INCOME

The elements associated with personal disposable income are determined in various parts of the system.

Personal disposable income can be derived in several different ways. One can view personal income as all wage, interest, transfer, farm and unincorporated nonfarm business income accruing to the personal sector. One can also begin with the definition of net national income. Here all factor payments are included whether they end up in the personal sector or elsewhere. By adding to net national income nonfactor payments made to the personal sector, and subtracting from it factor payments which do not make their way to the personal sector, an estimate of personal income is obtained. This is the route taken in CANDIDE Model 2.0.

The major items which influence personal income include wage income, government transfer payments, interest income, dividend income, income from nonfarm unincorporated business, and farm income. Personal disposable income is derived as personal income minus personal direct taxes and transfer payments from persons to governments. There are no behavioural equations in this block. All of the elements which feed to the four identities of this block are determined elsewhere.

It is important to identify the various factors which influence personal income.

Wagebill is the sum of industry specific wagebills, which are derived from a series of identities (industry specific wage rates times industry specific manhours). Manhours are renormalized production functions or labour demand functions. They depend upon output, capital stock or output and the real wage. Output is sensitive to the demand side of the model through the input-output route. Wage rates are sensitive to price expectations and labour market tightness. Transfer payments in the system are generated by level of government. They are rate-base calculations where the rates have been indexed and the bases are demographic in nature. The remaining items (income of unincorporated business, farm income, and interest and dividend income) are determined in the profit block of the model which is yet to be discussed. The factors which influence these concepts are drawn from the production, demand, and financial blocks of the model.

VARIABLES DETERMINED OUTSIDE THE PERSONAL DISPOSABLE INCOME BLOCK

GE.CAS.PE\$ GE.INT\$ GE.TPE\$	GR.DT.C\$	GR.TR.PETG\$	GR.YI\$	IN.VANAG\$	SINN	TESPERRMWS	TESPERRMWADJ\$	Y.ADJ.GTR\$	Y.INT.CD\$	Y.URPROF.CORPS	Y.URPROF.GOVBE\$
FED GOVT EXPND - CAPITAL ASSISTANCE, PERSONS GOVT EXPND - INTEREST PAYMENTS GOVT EXPND - TRNFS TO PERSONS	GOVERNMENT REVENUE - DIRECT TAXES CORP GOVT BUS ENTERPR	GOVERNMENT REVENUE - DIRECT TAXES PERSONS COVERNMENT REVENUE - TRANSFERS PERSONS TO GOVERNMENT	GOVERNMENT REVENUE - INVESTMENT INCOME	INVENTORY VALUATION ADJUSTMENT - NON AGRICULTURE	NET NATIONAL INCOME AT FACTOR COST	EXPORTS SERVICE RECEIPTS - PERSONAL REMITTANCES - WORLD	EXPORTS BOP/NA DISCREPANCY RE PERSONAL REMITTANCES	VALUATION ADJUSTMENT ON GRAIN TRANSACTIONS	INTEREST ON CONSUMER DEBT	UNREMITTED PROFITS OF CORPORATIONS	UNREMITTED PROFITS OF GOVT BUS ENTERPRISES

CURRENT TRANSFERS RETAINED EARNINGS OUTSIDE THE PERSONAL SECTOR	NSFERS RNINGS C	OUTSIDE	THE	PERSONAL	SECTOR	TP+CA+NR.TP RE\$
PERSONAL INCOME PERSONAL DISPOSABLE INCOME	COME	INCOME	-			PY\$ PDY\$

\$

= GE.TPE\$ + GE.CAS.PE\$ + TESPERRMW\$ - TESPERRMWADJ\$ = Y.URPROF.GOVBE\$ + Y.URPROF.CORP\$ + GR.DT.C\$ + GR.YI\$ + Y.ADJ.GFT\$ + II.VANAG\$ = NNI\$ + TP+CA+NR.TP\$ + GE.INT\$ + Y.INT.CD\$ - RE\$ = PY\$ - GR.DT.P\$ - GR.TR.PETG\$



NET NATIONAL INCOME AND PROFITS

In the National Accounts, GNE can be viewed from the expenditure side, the income side, or the product side. We have developed detailed disaggregated estimates of the components on the expenditure side of the accounts. Using Statistics Canada input-output tables, we have also developed a detailed statement of the production side of the accounts. However, we have not yet included a full explanation of those items which appear on the income side of the accounts, except for wagebill.

is the sum of factor payments (net national income at factor cost) plus capital consumption allowances, indirect taxes, the residual error of estimate, less subsidies. Net national income at factor cost can then be viewed (after adjustment for the residual error of estimate) as GNE less capital consumption allowances, indirect taxes, plus subsidies. Net national income at factor cost is the sum of factor payments. If we determine stochastically all factor payments except for profits we can renormalize the net national income identity and use it to determine profits. This is the procedure followed in CANDIDE Model 2.0.

Profits are the residual; they are what is left over after all other factors of production are rewarded.

estimates for capital consumption allowances, indirect taxes, farm income, income of nonfarm unincorporated business, interest income, and the other items which appear in the net national income identity. Many of the items needed have already been discussed in other blocks.

Wagebill is determined in the wage block. Indirect taxes are determined in the government revenue block. The public portion of capital consumption allowances is determined in the government expenditure block. Inventory valuation adjustment is determined in the inventory price block. The remaining items are determined in the net national income and profit block.

Capital consumption allowance in the private sector is determined as a rate-base calculation. The sum of the product of industry specific capital stock times an industry specific investment deflator times an industry specific economic depreciation rate is used as the explanatory variable in an equation estimated in logarithmic form with unitary elasticity. The economic depreciation rates are exogenous variables; both the capital stocks and the investment deflators are endogenous.

Income of nonfarm unincorporated business is influenced by activity on the expenditure side of the model. This factor payment item is composed of professional income, other unincorporated nonfarm income, and rental income of persons. These income items are the earnings of selfemployed proprietors where labour and investment-type income can only be segregated on an arbritary basis. The independent variables which influence this income item include the current dollar value of imputed and paid rent and the unemployment rate. The unemployment rate helps capture the cyclical nature of the nonrental components of this income item. The imputed and paid rental items are determined in the final demand consumption block; the unemployment rate is determined in the demographic block.

Farm income depends upon farm production and farm prices. This income item is in fact net income received by farm operators from farm production. It is composed of estimates of farm cash receipts from the sale of farm products, income in kind, and the value of the physical change in inventories of field crops and livestock, all reduced by farm operating expenses. Farm income is endogenously determined in CANDIDE Model 2.0. It is a function of agricultural output, price and trend factors. Although this specification fits the sample period well, it

relies heavily on information from output conversion and on the sector price for output originating in agriculture.

The factor payment "interest and miscellaneous investment income" excludes by definition interest paid on the public debt and interest paid on consumer debt.

Personal interest income by definition includes not only the factor payment "interest income", which makes its way to the personal sector, but also interest paid on government debt and interest paid on consumer debt. In CANDIDE Model 2.0 we derive the factor payment concept "interest and miscellaneous investment income" by subtracting from personal interest income those items that by definition are not factor payments (interest on the public debt and interest on consumer debt). We then add to this "investment income to the government sector" which is regarded as a factor payment but is not included in personal interest income.

Government investment income is determined in the government revenue block. Government interest payments are determined in the government expenditure block. Interest on consumer debt is influenced by interest rates and consumer durable demand variables. Also influencing interest on consumer debt is income of nonfarm unincorporated business.

With many of the components of interest and miscellaneous investment income (factor payment concept) available elsewhere in the model, we construct this concept by way of an identity. This route will require stochastic equations for personal interest income and dividends paid to Canadian residents.

Personal interest income has a domestic and foreign component. In CANDIDE Model 2.0, we model the domestic component of personal interest income by subtracting income receipts from abroad (calculated in the export block) from total personal interest income and making the residual depend upon the stock of various financial instruments and their respective interest rates in the asset portfolio model. As a result, personal interest income is linked explicitly to the financial block through asset stocks and their associated rates. Debt portfolio management of the federal government will then have a direct impact on personal interest income and thus personal income.

Dividends paid to Canadian residents are also determined endogenously by a simple distributed lag function of retained earnings of corporations, adjusted for the proportion of Canadian owned capital.

Once the major components of the net national income identity are on hand, corporate profits (business and government enterprises) are determined as a residual. It is the remainder after wages, farm income, income of nonfarm

unincorporated business, interest income and other items have been deducted from net national income. Since corporate taxes are determined in the government revenue block, corporate profits after taxes and retained earnings, both in the corporate sector and in the government business sector, can be derived from simple identities.

VARIABLES DETERMINED OUTSIDE THE NET NATIONAL INCOME & PROFITS BLOCK

CD\$ CSR10 CSR20 DPOP	DURATE FC FDEP.OTHPUB.CB FDEP.PUB.OFI	FDEP.PUB.TM FDEP.SAVPUB.CB FGD.CSB.PUB	FGD.GVCSEC.PUB FGD.P+MSEC.PUB FRATE.CBDEP.3M	FRATE.CBLEND FRATE.CSB FRATE, FCPAPER3M	FRATE.GBOND.10Y FRATE.PROG.BOND	GE.CGS.CCA\$ GE.INT\$	GR.YI\$ GRF.DT.CCRP\$	GRF.DT.CGOV\$	GRL.YI.REMS GRP.DT.CS	GRP.YI.REMS IEDAGFTC	IEDAGETM		IEDCOMMC543.8	IEDFIREC701.37		IEDMFDC251.9	IEDMFDC261.8 IEDMFDC291.4	I EDMFDC295.8	000	IEDMFDC321+20.9	IEDMFDC325 IEDMFDC331.9	IEDMFDC351.9 IEDMFDM251.9	IEDMFDM261.8
CONSUMER EXPND - TOTAL DURABLE GOODS AS PER NA CONSUMER EXPND - GROSS IMPUTED RENT CONSUMER EXPND - GROSS RENT PAID TOTAL POPULATION CANADA	ITAL IN CANADA TS - OTHER NOTICE - CHARTER TS - OTHER FINANCIAL INTER	ZO		CANADA SAVINGS BONDS INANCE CO PAPER RATE	GOUT OF CDA BOND YIELD AVERAGES 10 YRS & OVER YIELD ON PROVINCIAL GOVERNMENT BONDS INTEREST ON TRIST OF & VEGILEDANTED TANTEGRADOUR OFFIN	CURNT GDS & SRVS, DEPRECIATION INTEREST PAYMENTS	ENUE - INVESTMENT INCOMP	FED GOVT REVENUE - DIRECT TAXES GOVT BUS ENTERPRISES FED GOVT REV - INVET INCOME REMITT FROM GOVT CORP	COVI	GOVT REV - INVS	- MACH	CONST INDST - MACH & EQUIP		E INDST	FORESTRY INDST - BLDG & ENG CONST	DEPR WOOD INDST - BLDG & ENG CONST	DEPR IRON & STEEL INDST	ECON DEPR NONFERROUS METALS - BLDG & ENG CONST ECON DEPR METAL FAB INDST - BLDG & ENG CONST	ECON DEPR MACH (EX ELEC MACH) INDST - BLDG & ENG CONST ECON DEPR NON AUTO TRANSPORT FOULT - BLDG & FNG CONST	DEPR MOTOR VEHICLE (EX PARTS & ACC) - BLDG &	DEPR ELECTRICAL PROD INDST - BLDG & ENG CONST	DEPR NON METAL MINING PRO DEPR WOOD INDST - MACH &	1

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IEDMFNDM151.3
IEDMFNDM162.5
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CRD PET NATL GAS & SRVS INC TO MIN IND - M&E
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                        METAL FAB INDST - MACH & EQUIP & CICCE
MACH (EX ELEC MACH) INDST - MACH & EQUIP & CICCE
NON AUTO TRANSPORT EQUIP - MACH & EQUIP & CICCE
MOTOR VEHICLE (EX PARTS & ACC) - M&E & CICCE
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FORESTRY INDST - MACH & EQUIP
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TEXTILE INDST - BLDG & ENG CONST
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COAL MINING - M&E & CICOE
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IKMFDM321+326.9
IKMFDM323.4
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CAD PET NATL GAS & SERV INC TO MIN INDST - M&E
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COMMER SVCS INDST - MACH & EQUIP
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PET & COAL PROD INDST - BLDG & ENG CONST
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MOTOR VEH (EX PARTS & ACC) INDST - MÉE & CICOE
MOTOR VEH PARTS & ACC INDST - MEE & CICOE
ELECTRICAL PROD INDST - MEE & CICOE
NON METAL MINING PROD INDST - MEE & CICOE
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RUBBER & PLASTIC PROD INDST - BLDG & ENG CONST
             MACH (EX ELEC MACH) INDST - BLDG & ENG CONST
NOW AUTO TRANSPORT EQUIP - BLDG & ENG CONST
MOTOR VEHICLE (EXCL PARTS) - BLDG CONST
MOTOR VEHICLE PARTS & ACC - BLDG & ENG CONST
ELECTRICAL PROD INDST - BLDG & ENG CONST
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STOCK WHOLESALE & RETAIL TRADE INST - M&E & CICOE
STOCK TRANSPORT INDST - BLDG & ENG CONST
STOCK TRANSPORT INDST - M&E & CICOE
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PET & COAL PROD INDST - M&E & CICOE
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MISC MANUF INDST - BLDG & ENG CONST
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TEXTILE INDST - M&E & CICOE
KNITTHE & CLOTHING INDST - M&E & CICOE
PAPER & ALLIED INDST - M&E & CICOE
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CAP STOCK UTILITY INDST - MEE & CICOE
INVENTORY VALUATION ADJUSTMENT - NON AGRICULTURE
DEFLATOR CONS EXPND - GROSS IMPUTED RENT
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 METAL FAB INDST - BLDG & ENG CONST
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TEXTILE INDST - BLDG & ENG CONST
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METAL FAB INDST - M&E & CICOE
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MINING TOTAL - MACH & EQUIP
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PEIMPON295.8
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PEIMPON321.426.9
PEIMPON323.4
PEIMPON331.9
PEIMPON331.9
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PFIFIREM701.37
PFIFSTYC31.9
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NW WACH (EX BLEC MACH) INDST — BLDG & ENG CONST
NW WOTOR VEHICLE INDST (EX PRIS & ACC) — B&E CONST
NW WOTOR VEHICLE INDST — BLDG & ENG CONST
NW WOTOR VEHICLE INDST — BLDG & ENG CONST
NW WOOD INDST — MEE & CICOE
NW WOOD INDST — MEE & CICOE
NW WOOD INDST — MEE & CICOE
NW WOND METAL FAN PROD INDST — MEE & CICOE
NW WOND METAL FAN INDST — MEE & CICOE
NW WOLVER INDST — MEE & CICOE
NW WACH (EX ELEC MACH) INDST — MEE & CICOE
NW WACH (EX ELEC MACH) INDST — MEE & CICOE
NW WOTO VEH INDST (EX PARTS & ACC) — MEE & CICOE
NW WOTO VEH INDST (EX PARTS & ACC) — MEE & CICOE
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RUBBER & PLASTIC PROD INDST - BLDG & ENG CONST
LEATHER INDST - BLDG & ENG CONST
TEXTILE INDST - BLDG & ENG CONST
KNITTING & CLOTHING INDST - BLDG CONST
PAPER & ALLIED INDST - BLDG CONST
                                AV CONSTRUCTION INDST - BLDG & ENG CONST

WAY CONSTRUCTION INDST - BLDG & ENG CONST

NV COMMUNICATIONS INDST - BLDG & ENG CONST

NV COMMUNICATIONS INDST - BLDG & ENG CONST

NV PIN INS & REAL ESTATE INDST - BLDG CONST

NV PIN INS & REAL ESTATE INDST - M&E & CICOE

NV PORESTRY INDST - BLDG & ENG CONST

NV PORESTRY INDST - MACH & EQUIP
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PAPER & ALLIED INDST - M&E & CICOE
PRINT, PUBLISH & ALLIED INDST - M&E & CICOE
PET & COAL PROD INDST - M&E & CICOE
AGRIC FISH & TRAP INDST - BLDG & ENG CONSTAGRIC FISH & TRAP INDST - MACH & EQUIP
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RUBBER & PLASTIC PROD INDST - MARE & CICCE
LEATHER INDST - MARE & CICCE
TEXTILE INDST - MARE & CICCE
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FURNITURE & FIXTURE INDST - BLDG CONST
                                                                                                                                                                                                                                          IRON & STEEL INDST - BLDG CONST
NONFERROUS METALS - BLDG & ENG CONST
METAL FAB INDST - BLDG & ENG CONST
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COAL MINING - BLDG & ENG CONST
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METAL MINING INDST - MACH & EQUIP
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FOOD & BEVERAGE INDST - M&E & CICOE
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Y DUMMY 69

DUMMY VARIABLE - NET NATIONAL INCOME & PROFITS BLOCK DUMMY VARIABLE - NET NATIONAL INCOME & PROFITS BLOCK

VARIABLES EXOGENOUS TO THE NET NATIONAL INCOME & PROFITS BLOCK

NON METAL MINING (EX COAL) - BLDG & ENG CONST NON METAL MINING (EX COAL) - MACH & EQUIP INV DEFLATOR

CRD PET NATL GAS & SERV INC TO MIN IND - B&E CONSTINV CRD PET NATL GAS & SERV INC TO MIN IND - M & E INV COMMER SVCS INDST - BLDG CONSTINV COMMER SVCS INDST - MACH & EQUIP INV WHOLESALE & RETAIL TRADE INDST - BLDG CONSTINV WHOLESALE & RETAIL TRADE INDST - MACH & EQUIP INV TRANSPORT INDST - BLDG & ENG CONST DEFLATOR DEF

DEFLATOR INV TRANSPORT INDST - MÆE & CICOE DEFLATOR INV UTLLITY INDST - BLDG & ENG CONST DEFLATOR INV UTLLITY INDST - MÆE & CICOE

EXPORTS SERVICE RECEIPTS - INCOME RECEIPTS - WORLD WAGEBILL - TOTAL

GDP, AGRIC FISH & TRAP INDST

XAGFT1.21+41.7\$

PFITTSPMSØ1.27 PFIUTILC572.9 PFIUTILM572.9

TESINCRCWS

WBTOT

DEFL INV

PFIMINMATI87
PFIMIPG64+96.9
PFIMIPM64+96.9
PFISYCMC
PFISYCMM
PFITRADG62.99
PFITRADM62.99
PFITRADM62.99

PFIMINMC71.87

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B GNE\$ - REE\$ - Y.CCA+MVA\$ - GR.IT\$ + GE.SUB\$ B B B B B B B B B B B B B B B B B B B	- Y.DIVPCR\$ + Y.URPROF.GOVBE\$ + GRF.DT.CGOV = NNI\$ - WEFOT - IN.VANAG\$ - Y.NFARMUIB\$ - Y. - Y.INT+MIY\$ + Y.DIVPNR\$ + Y.PROFBT.GOVBE\$ E Y.PROFBT.CG\$ - Y.PROFBT.GOVBE\$ = GRF.DT.CCRP\$ + GRP.DT.C\$ E Y.DIVPCR\$ + Y.DIVPNR\$ = Y.DIVPCR\$ + Y.DIVPNR\$ = Y.PROFBT.CORP\$ - Y.DIV\$ - GR.DT.CORP\$ - Y.CC = GRF.YIR.REM\$ + GRP.YIR.REM\$ + GRL.YIR.REM\$ = Y.PROFBT.GOVPR\$ - GR. VIR.REM\$ - GRF.DT.COVP\$	choose de la constant
Y.B.CCAS Y.CCA+WVAS W.NIS Y.NFARWIDS Y.FARMS Y.INT.CDS Y.INT.PRSNS Y.INT.PRSNS Y.INT.PRSNS Y.INT.PRSNS	Y.PROFBT.CG\$ Y.PROFBT.GOVBE\$ Y.PROFBT.CORP\$ Y.CORP.TP\$ GR.DT.CORP\$ Y.DIVPOR\$ Y.DIVPNR\$ Y.DIVPNR\$ Y.URPNOF.CORP\$ GR.YI.RBM\$	
CAP CONSUMPTION ALLOWANCES - BUSINESS CAP CONS ALLOWANCES & MISC VALUATION ADJ NET NATIONAL INCOME AT FACTOR COST NET INCOME OF FACTOR COST ACCRUED NET INCOME OF FARM OP FROM FARM PROD INTEREST ON CONSUMER DEBT INTEREST INCOME - PERSONS INTEREST INCOME - PERSONS INTEREST, DIVIDENDS & MISC INVST INCOME INTEREST AND MISC INVESTMENT INCOME	CORPORATE & GOVT BUS ENTERPRISE PROFITS PROFITS OF GOVT BUSINESS ENTERPRISES CORPORATE PROFITS BEFORE TAXES TRANSFER PAXENTS FROM CORPORATIONS TO PERSONS CORPORATE TAXES DIVIDENDS PAID TO CANADIAN RESIDENTS DIVIDENDS PAID TO NONRESIDENTS DIVIDENDS PROFITS OF CORPORATIONS REMITTED PROFITS OF COYT BUSINESS ENTERPRISES UNREMITTED PROFITS OF GOVT BUSINESS ENTERPRISES	

Equation No: 1381

Name: Capital Consumption Allowances -- Business

Mnemonic: Y.B.CCA\$ Period: 1947-76

ln(Y.B.CCA\$)

+ 1.43557
(7.77)

+ 0.92936 ln((IEDAGFTC * IKAGFTC * PFIAGFTC) + (IEDAGFTM * IKAGFTM * PFIAGFTM) (38.16)+ (IEDCNSTC * IKCNSTC * PFICNSTC) + (IEDCNSTM * IKCNSTM * PFICNSTM) + (IEDCOMMC543.8 * IKCOMMC543.8 * PFICOMMC543.8) + (IEDCOMMM543.8 * IKCOMMM543.8 * PFICOMMM543.8) + (IEDFIREC701.37 * IKFIREC701.37 * PFIFIREC701.37) + (IEDFIREM701.37 * IKFIREM701.37 * PFIFIREM701.37) + (IEDFSTYC31.9 * IKFSTYC31.9 * PFIFSTYC31.9) + (IEDFSTYM31.9 * IKFSTYM31.9 * PFIFSTYM31.9) + (IEDMFDC251.9 * IKMFDC251.9 * PFIMFDC251.9) + (IEDMFDM251.9 * IKMFDM251.9 * PFIMFDM251.9) + (IEDMFDC261.8 * IKMFDC261.8 * PFIMFDC261.8) + (IEDMFDM261.8 * IKMFDM261.8 * PFIMFDM261.8) + (IEDMFDC291.4 * IKMFDC291.4 * PFIMFDC291.4) + (IEDMFDM291.4 ▼ IKMFDM291.4 * PFIMFDM291.4) + (IEDMFDC295.8 * IKMFDC295.8 * PFIMFDC295.8) + (IEDMFDM295.8 * IKMFDM295.8 * PFIMFDM295.8) + (IEDMFDC301.9 * IKMFDC301.9 * PFIMFDC301.9) + (IEDMFDM301.9 * IKMFDM301.9 * PFIMFDM301.9) + (IEDMFDC311.8 * IKMFDC311.8 * PFIMFDC311.8) + (IEDMFDM311.8 * IKMFDM311.8 * PFIMFDM311.8) + (IEDMFDC321+26.9 * IKMFDC321+326.9 * PFIMFDC321+26.9) + (IEDMFDM321+26.9 * IKMFDM321+326.9 * PFIMFDM321+26.9) + (IEDMFDC323.4 * IKMFDC323.4 * PFIMFDC323.4) + (IEDMFDM323.4 * IKMFDM323.4 * PFIMFDM323.4) + (IEDMFDC325 * IKMFDC325 * PFIMFDC325) + (IEDMFDM325 * IKMFDM325 * PFIMFDM325) + (IEDMFDC331.9 * IKMFDC331.9 * PFIMFDC331.9) + (IEDMFDM331.9 * IKMFDM331.9 * PFIMFDM331.9) + (IEDMFDC351.9 * IKMFDC351.9 * PFIMFDC351.9) + (IEDMFDM351.9 * IKMFDM351.9 * PFIMFDM351.9) + (IEDMFNDC101.9 * IKMFNDC101.9 * PFIMFNDC101.9) + (IEDMFNDM101.9 * IKMFNDM101.9 * PFIMFNDM101.9) + (IEDMFNDC151.3 * IKMFNDC151.3 * PFIMFNDC151.3) + (IEDMFNDM151.3 * IKMFNDM151.3 * PFIMFNDM151.3) + (IEDMFNDC162.5 * IKMFNDC162.5 * PFIMFNDC162.5) + (IEDMFNDM162.5 * IKMFNDM162.5 * PFIMFNDM162.5) + (IEDMFNDC172.9 * IKMFNDC172.9 * PFIMFNDC172.9) + (IEDMFNDM172.9 * IKMFNDM172.9 * PFIMFNDM172.9) + (IEDMFNDC181.9 * IKMFNDC181.9 * PFIMFNDC181.9)

+ (IEDMFNDM181.9 * IKMFNDM181.9 * PFIMFNDM181.9) + (IEDMFNDC231.49 * IKMFNDC231.49 * PFIMFNDC231.49) + (IEDMFNDM231.49 * IKMFNDM231.49 * PFIMFNDM231.49)

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+ (IEDMFNDC271.4 * IKMFNDC271.4 * PFIMFNDC271.4)
+ (IEDMFNDM271.4 * IKMFNDM271.4 * PFIMFNDM271.4)
+ (IEDMFNDC286.9 * IKMFNDC286.9 * PFIMFNDC286.9)
+ (IEDMFNDM286.9 * IKMFNDM286.9 * PFIMFNDM286.9)
+ (IEDMFNDC365.9 * IKMFNDC365.9 * PFIMFNDC365.9)
+ (IEDMFNDM365.9 * IKMFNDM365.9 * PFIMFNDM365.9)
+ (IEDMFNDC372.9 * IKMFNDC372.9 * PFIMFNDC372.9)
+ (IEDMFNDM372.9 * IKMFNDM372.9 * PFIMFNDM372.9)
+ (IEDMFNDC391.9 * IKMFNDC391.9 * PFIMFNDC391.9)
+ (IEDMFNDM391.9 * IKMFNDM391.9 * PFIMFNDM391.9)
+ (IEDMICLC61 * IKMICLC61 * PFIMICLC61)
+ (IEDMICLM61 * IKMICLM61 * PFIMICLM61)
+ (IEDMIMMC51.9 * IKMIMMC51.9 * PFIMIMMC51.9)
+ (IEDMIMMM51.9 * IKMIMMM51.9 * PFIMIMMM51.9)
+ (IEDMINMC71.87 * IKMINMC71.87 * PFIMINMC71.87)
+ (IEDMINMM71.87 * IKMINMM71.87 * PFIMINMM71.87)
+ (IEDMIPC64+96.9 * IKMIPC64+96.9 * PFIMIPC64+96.9)
+ (IEDMIPM64+96.9 * IKMIPM64+96.9 * PFIMIPM64+96.9)
+ (IEDSVCMC * IKSVCMC * PFISVCMC)
+ (IEDSVCMM * IKSVCMM * PFISVCMM)
+ (IEDTRADC602.99 * IKTRADC602.99 * PFITRADC602.99)
+ (IEDTRADM602.99 * IKTRADM602.99 * PFITRADM602.99)
+ (IEDTRSPC501.27 * IKTRSPC501.27 * PFITRSPC501.27)
+ (IEDTRSPM501.27 * IKTRSPM501.27 * PFITRSPM501.27)
+ (IEDUTILC572.9 * IKUTILC572.9 * PFIUTILC572.9)
+ (IEDUTILM572.9 * IKUTILM572.9 * PFIUTILM572.9))
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 $R^2 = 0.995$ SEE = 0.052 D.W. = 0.392 RHO = 0.804

Equation No.: 1386

Name: Net Income of Nonfarm Unincorporated Business

Period: 1955-75 Mnemonic: Y.NFARMUIB\$

Y.NFARMUIB\$

(1,3,NONE)

 $R^2 = .994$ SEE = 115.75 D.W. = 1.296

Equation No:: 1387

Name: Accrued Net Income of Farm Operators from Farm Production

Mnemonic: Y. FARM\$ Period: 1949-74

Y.FARM\$

= **-** 2427.99000 (6.50)

+ 0.85537 XAGFT1.21+41.7\$ (23.85)

+ 32211100.0 1 / DPOP (5.84)

 $R^2 = .965$ SEE = 124.300 D.W. = 0.667 RHO = 0.649

Equation No.: 223

Name: Interest on Consumer Debt

Period: 1952-75 Mnemonic: Y. INT.CD\$

Y. INT. CD\$

+ 18842600.00000 1 / DPOP (12.32)

+ sum(i=0,2)b(i) Y.NFARMUIB\$(-i)

+ sum(i=0,2)c(i) (CD\$(-i) * FRATE.CBLEND(-i))

i	b(i)	t(i)	c(i)	t(i)
0 1 2	+0.026433 +0.072628 +0.118822	(0.91) (13.04) (3.42)	+0.00612 +0.00207 -0.00199	(22.39) (10.53) (4.09)
sum	+0.21788	(13.04)	+0.00621	(10.53)
	(1,3,NONE)		(1,3,NONE)	

 $R^2 = 0.998$ SEE = 17.954 D.W. = 1.413

Equation No.: 1390

Name: Interest Income -- Persons

Mnemonic: Y. INT.PRSN\$ Period: 1954-75

Y.INT.PRSN\$ - TESINCRCW\$

= + 533.58900 (4.81)

> + 0.59499 (((FGD.CSB.PUB * FRATE.CSB) / 100) (28.25) + ((FGD.CYCSEC.PUB * FRATE.GBOND.10Y) / 100) + ((FGD.P+MSEC.PUB * FRATE.PROG.BOND) / 100) + ((FDEP.PUB.TM * FRATE.TM) / 100) + ((FDEP.PUB.OFI * FRATE.TM) / 100) + ((FDEP.OTHPUB.CB * FRATE.CBDEP.3M) / 100) + ((FDEP.SAVPUB.CB * FRATE.FCPAPER3M) / 100))

 $R^2 = 0.988$ SEE = 222.840 D.W. = 1.112 RHO = 0.473

Equation No.: 1394

Name: Profits of Government Business Enterprises

Mnemonic: Y.PROFBT.GOVBE\$ Period: 1950-76

Y.PROFBT.GOVBE\$

= + 131.99900 (4.20)

+ 299.10300 YDUMMY69 (4.90)

+ 104.215 YDUMMY50 (2.55)

+ 0.01696 Y.PROFBT.CG\$ (3.06)

+ 0.016897 (Y.PROFBT.CG\$ - Y.PROFBT.CG\$(-1)) (1.07)

 $\overline{R}^2 = 0.914$ SEE = 82.705 D.W. = 2.354

Equation No.: 1396

Name: Transfer Payments from Corporations to Persons

Mnemonic: Y.CORP.TP\$ Period: 1955-75

Y.CORP.TP\$

= + 268.32700 (5.15)

+ 0.00590 Y.PROFBT.CORP\$ (6.76)

+ 1.92547 DURATE (1.04)

- 3882310.0 1 / DPOP (4.66)

 $\overline{R}^2 = 0.970$ SEE = 9.21580 D.W. = 0.733 RHO = 0.621

1398 Equation No .:

Name: Dividends Paid to Canadian Residents

Period: 1959-75 Mnemonic: Y.DIVPCR\$

Y.DIVPCR\$

+ 72.77090 (1.63)

> + sum(i=0,1)b(i) (Y.URPROF.CORP\$(-i) * (1 - (FC(-i) / (IKAGFTC(-i) * PFIAGFTC(-i) + IKAGFTM(-i) * PFIAGFTM(-i) + IKCNSTC(-i) * PFICNSTC(-i) + IKCNSTM(-i) * PFICNSTM(-i) + IKCOMMC543.8(-i) * PFICOMMC543.8(-i) + IKCOMMM543.8(-i) * PFICOMMM543.8(-i) + IKFIREC701.37(-i) * PFIFIREC701.37(-i) + IKFIREM701.37(-i) * PFIFIREM701.37(-i) + IKFSTYC31.9(-i) * PFIFSTYC31.9(-i) + IKFSTYM31.9(-i) * PFIFSTYM31.9(-i) + IKMFC(-i) * PFIMFC(-i) + IKMFM(-i)* PFIMFM(-i) + IKMIC(-i) * PFIMIC(-i) + IKMIM(-i) * PFIMIM(-i) + IKSVCMC(-i) * PFISVCMC(-i) + IKSVCMM(-i) * PFISVCMM(-i) + IKTRADC602.99(-i) * PFITRADC602.99(-i) + IKTRADM602.99(-i) * PFITRADM602.99(-i) + IKTRSPC501.27(-i) * PFITRSPC501.27(-i) + IKTRSPM501.27(-i) * PFITRSPM501.27(-i) + IKUTILC572.9(-i) * PFIUTILC572.9(-i)

> > + IKUTILM572.9(-i) * PFIUTILM572.9(-i)))))

b(i) t(i) i +0.54104 (7.11)+0.13826 (1.60) 1 sum +0.679308 (24.10) (1,2,NONE)

 $R^2 = 0.979$

SEE = 107.07 D.W. = 1.932

Equation No.: 1399

Name: Dividends Paid to Nonresidents

Period: 1961-75 Mnemonic: Y.DIVPNR\$

Y.DIVPNR\$

+ 284.95100 (5.22)

> + sum(i=0,3)b(i) (Y.URPROF.CORP\$(-i) * (FC(-i) / (IKAGFTC(-i) * PFIAGFTC(-i) + IKAGFTM(-i) * PFIAGFTM(-i) + IKCNSTC(-i) * PFICNSTC(-i) + IKCNSTM(-i) * PFICNSTM(-i) + IKCOMMC543.8(-i) * PFICOMMC543.8(-i) + IKCOMMM543.8(-i) * PFICOMMM543.8(-i) + IKFIREC701.37(-i) * PFIFIREC701.37(-i) + IKFIREM701.37(-i) * PFIFIREM701.37(-i) + IKFSTYC31.9(-i) * PFIFSTYC31.9(-i) + IKFSTYM31.9(-i) * PFIFSTYM31.9(-i) + IKMFC(-i) * PFIMFC(-i) + IKMFM(-i) * PFIMFM(-i) + IKMIC(-i) * PFIMIC(-i)+ IKMIM(-i) * PFIMIM(-i) + IKSVCMC(-i) * PFISVCMC(-i) + IKSVCMM(-i) * PFISVCMM(-i) + IKTRADC602.99(-i) * PFITRADC602.99(-i)

+ IKTRADM602.99(-i) * PFITRADM602.99(-i) + IKTRSPC501.27(-i) * PFITRSPC501.27(-i) + IKTRSPM501.27(-i) * PFITRSPM501.27(-i) + IKUTILC572.9(-i) * PFIUTILC572.9(-i) + IKUTILM572.9(-i) * PFIUTILM572.9(-i)))))

b(i) t(i) (4.94)0 +0.13001 +0.12788 (4.51) 1 (4.63) +0.10296 2 (0.86)3 +0.05524 sum +0.41608 (9.43) (2,4,NONE)





BALANCE OF PAYMENTS AND EXCHANGE RATE

The balance of payments block, including exchange rate determination, contains (1) the identities which, by differencing exports and imports in nominal terms obtained from the demand and price side of the model, provide an estimate of the current account balance, (2) a system of stochastic equations which determine direct investment, (3) a system of stochastic equations which determine portfolio transactions associated with long term capital movements including provincial and municipal debt issued abroad, (4) the equations and identities which determine the official settlements balance and short term capital movements, and (5) the stochastic equations which determine the exchange rate. These items depend upon an array of domestic and foreign activity, price, interest rate and liquidity variables.

The identities which determine the various balances associated with international trade follow directly from the nominal values for exports and imports derived in the final demand price block of CANDIDE Model 2.0.

Differencing exports and imports of goods results in the merchandise trade balance. Balances for the various categories of services — freight and shipping, travel, income flows and other services — are calculated, and their summation, with the exclusion of withholding taxes, gives an estimate of the balance on total services. The merchandise

and services balances combine with the balance on international transfers to produce the current account balance. The terms of trade for both merchandise goods and goods and services are also derived as identities.

Direct investment in Canada and abroad is disaggregated to include U.S. and rest of world components.

Among the major explanatory factors used as right hand side variables are investment requirements in Canada and in the United States and the rest of the world, and foreign and domestic sources of funds.

related to Canadian investment activity and relative capital costs, and is negatively influenced by U.S. investment requirements relative to the availability of funds.

Overseas direct investment in Canada follows a specification similar to that of the U.S. direct investment in Canada equation, but does not incorporate a measure of overseas sources of funds. Canadian direct investment in the United States is explained by U.S. investment requirements, relative capital costs, Canadian liquidity and Canada/U.S. interest rate differentials. The principal arguments in the equation explaining Canadian direct investment in overseas countries are investment requirements in the overseas OECD countries, Canadian liquidity, and Canada/U.K. interest rate differentials.

Portfolio investment in Canada held by foreigners is disaggregated by two levels of government — federal and provincial and municipal, while corporate portfolio investment is disaggregated into net new issues and outstanding bonds. Explanatory factors include investment requirements in Canada, interest rate differentials in some cases augmented by the differential between the spot and expected exchange rates, and foreign sources of funds. Stocks and net miscellaneous long term transactions are determined exogenously.

Perhaps the most interesting equation in the capital account is that associated with provincial and municipal debt issued abroad. In the government sector we indicated that debt servicing at the provincial level is influenced by the outstanding stock of provincial debt and a weighted average of Canadian and U.S. interest rates, where the weights reflected the proportion of provincial debt held abroad. The equation in the balance of payments block which explains provincial and municipal securities issued abroad is positively related to the rate of change of the outstanding stock of government debt (provincial and municipal) and to Canada/U.S. interest rate differentials. It is negatively influenced by pension fund surpluses available to these levels of government and by U.S. investment requirements relative to the availability of funds.

Portfolio investment abroad held by Canadians is explained by factors including interest rate differentials, U.S. investment requirements and Canadian liquidity.

Long term capital balances for direct and portfolio investment are calculated, as is the basic balance which is composed of the long term capital balance and the current account balance.

Short term capital movements are determined within CANDIDE Model 2.0 a residual. They are the difference between the official settlements balance, which is determined stochastically (and further described below), and the basic balance adjusted for special drawing rights.

In CANDIDE Model 2.0 we model both the official demand for foreign exchange as well as the value of the Canadian dollar vis-a-vis the U.S. dollar, both under fixed and flexible exchange rate regimes. Under the fixed exchange rate regime pressure from the exchange market is transmitted as changes in the official settlements balance. In contrast to this, in the flexible exchange rate regime, most of the pressure is absorbed through changes in the value of the Canadian dollar.

The exchange rate model in CANDIDE Model 2.0 is an adaptation of the monetary approach to the balance of payments. This approach treats the exchange rate as the relative price of two currencies, determined by the relative

supply of and demand for these two currencies. However, in CANDIDE Model 2.0 we develop a more structural approach, which recognizes the role of capital flows, government intervention (both through direct intervention in the exchange market and through indirect intervention through domestic monetary policy), and introduce a somewhat more "rational" concept of exchange rate expectations.

The principal equation in the exchange rate model is that of the expected exchange rate. In this equation the expected exchange rate is influenced by the ratio of expected prices (domestic) to actual prices (U.S.) and the level of reserves. Under the fixed regime, movements in the expected exchange rate depend primarily on the level of reserves; under the flexible regime, the level of reserves is supplemented by the ratio of expected domestic to U.S. inflation. Expected domestic inflation is determined as a weighted average of past rates of change in the CPI and past rates of change in M1, and is the same variable used to explain industry specific wage behaviour. This represents a "rational" approach to the determination of price expectations.

The expected exchange rate is the principal argument in both the spot and forward exchange rate equations. The expected exchange rate may be viewed as the normal or long run exchange rate, implied by the monetary approach. The spot rate, however, in this specification may

deviate from the long run rate in a flexible regime for reasons of government intervention, and because of short run capital movements. These latter considerations are captured by introducing, under a flexible regime, short term capital movements and the percentage change in the 3 month commercial paper rate into the equation for the spot exchange rate. The forward rate responds to changes in the expected exchange rate and interest rate differentials between the United States and Canada.

These equations exhibit different responses, under either fixed or floating exchange regimes, as indicated above. The official demand for spot exchange exhibits differential behaviour. Under a fixed regime it reacts to the percentage change in prices, and the target exchange rate. As the exchange rate (CAN\$/US\$) moves above its target, more reserves are supplied. Under a flexible regime the movements in the official excess demand for spot exchange cushion the movements in the spot rate. This implies that the flexible exchange regime may accurately be characterized as a managed or "dirty" float. Under a flexible regime expected exchange rates react to the past rate, relative (US/CAN) prices and the level of reserves. In the fixed regime they react only to the level of reserves. The spot rate reacts to the expected rate under a fixed and flexible regime. It is supplemented by intervention and capital flows under a flexible regime.

Within the balance of payments block there is an important item which is influenced by the official settlements balance. This is the federal government foreign exchange financing requirements which directly influence the budget constraint in the debt portfolio model of the financial block, along with other items such as the federal deficit. As a result, movements in the official settlements balance caused either by exchange rate variation or by dwindling reserves have an impact on government financing requirements and, through the debt portfolio and asset portfolio model in the financial block (yet to be discussed), have an impact on money supply (M1) growth.

The current account balance associated with invisibles is indirectly linked with the financial requirements of municipal and provincial governments. Provincial and municipal bonds issued abroad depend upon municipal and provincial funding requirements (their deficit position). Furthermore, we indicated previously that income payments to abroad in the import service account are influenced by the outstanding stock of municipal and provincial debt held abroad. These are only a few of the many links that exist between the balance of payments block and the rest of the system.

BALANCE OF PAYMENTS BLOCK

FGD.P+MSEC.PUB FRATE.FCPAPER3M FRATE.GBOND.10Y FRATE, PROG. BOND GEF. TNR. OCONTS IKTRADC602.99 IKTRADM602.99 IKTRSPC501.27 IKTRSPN501.27 IKUTILC572.9 IKUTILM572.9 IN.VANAG\$ IKCOMMC543.8 IKCOMMM543.8 IKFIREC701.37 IKFIREM701.37 IKFSTYC31.9 KSVHGEDC806 FGD. P+MGOV GRF.DT.NR\$ PFIAGFTC GSPENOS IAGFTCS IAGFTMS IBNACOS IBNAMS PFI CNSTC PFI CNSTM GSPENC\$ KAGFTC KAGFTM IKCNSTC IKSVCMC LKSVCMM LKSVNCM KCNSTM KSVNCC IKMICIKMIM NVAGS KMFC KMFM PFGFC VARIABLES DETERMINED OUTSIDE THE BALANCE OF PAYMENTS BLOCK OUNT SAVINGS AUGREC FENDLING FLAN INV ARRICE FISH & TRAP INDST - BLDG & ENG CONST INV ARRICE FISH & TRAP INDST - BLDG & ENG CONST INV BUS MACH & EQUIP - NAT ACCTS INV BUS MACH & EQUIP - NAT ACCTS CAP STOCK AGRIC FISH & TRAP INDST - BLDG & ENG CONST CAP STOCK AGRIC FISH & TRAP INDST - BLDG & ENG CONST CAP STOCK CONSTRUCTION INDST - BACH & EQUIP CAP STOCK COMMUNICATION INDST - BACH & EQUIP CAP STOCK COMMUNICATION INDST - BLDG & ENG CONST CAP STOCK POWENTY INDST - BLDG & ENG CONST CAP STOCK POWENTY INDST - BLDG & ENG CONST CAP STOCK POWENTY INDST - BLDG & ENG CONST CAP STOCK MANUF TOTAL - MACH & EQUIP CAP STOCK COMMER SVCS INDST - BLDG CONST CAP STOCK COMMER SVCS INDST - BACH & EQUIP CAP STOCK COMMER SVCS INDST - BACH & EQUIP CAP STOCK COMMER SVCS INDST - BACH & EQUIP CAP STOCK COMMER SVCS INDST - BACH & EQUIP CAP STOCK COMMER SVCS INDST - BACH & EQUIP CAP STOCK COMMER SVCS INDST - BACH & EQUIP CAP STOCK COMMER SVCS INDST - BACH & EQUIP CAP STOCK COMMER SVCS INDST - BACH & EQUIP CAP STOCK COMMER SVCS INDST - BACH & EQUIP CAP STOCK COMMER SVCS INDST - BACH & EQUIP CAP STOCK COMMER SVCS INDST - BACH & EQUIP CAP STOCK COMER SVCS INDST - BACH & EQUIP CAP STOCK COMER SVCS INDST - BACH & EQUIP CAP STOCK COMER SVCS INDST - BACH & EQUIP CAP STOCK COMER SVCS INDST - BACH & EQUIP CAP STOCK COMER SVCS INDST - BACH DEFLATOR GROSS CAPITAL FORMATION DEFLATOR GROSS NATIONAL EXPENDITURE (GNE) DEFLATOR INV AGRLC FISH & TRAP INDST - BLDG & ENG CONST DEFLATOR INV AGRLC FISH & TRAP INDST - MACH & EQUIP DEFLATOR INV CONSTRUCTION INDST - BLDG & ENG CONST DEFLATOR INV CONSTRUCTION INDST - BLDG & ENG CONST WHOLESALE & RETAIL TRADE INDST - BLDG CONST WHOLESALE & RETAIL TRADE INDST - M&E & CICOE TRANSPORT INDST - BLDG & ENG CONST TRANSPORT INDST - MACH & EQUIP & CICOE PROVINCIAL & MUNICIPAL BONDS PROV & MUNIC SCURTIES HELD BY CANADIANS GOVT OF CENADA BOND YIELD AVERAGES 10 YRS & OVER GUTED, YOUND & WEIR BOND YIELD AVG OF 10 INDUSTRIES YIELD ON PROVINCIAL GOVT BONDS GOVERNMENT DEFICIT - FEDERAL FED GOVT EXPND - TRNES TO NON RES, OFF CONTRIBUTIONS FED GOVT REV - DIRECT TAXES NORRES WITHHOLDING TAX UTILITY INDST - BLDG CONST UTILITY INDST - MACH & EQUIP & CICOE VALUATION ADJUSTMENT - NON AGRICULTURE GOVERNMENT SAVING GOVERNMENT SAVING CANADA PENSION PLAN GOVT SAVINGS QUEBEC PENSION PLAN - TOTAL ECONOMY - AGRICULTURE INFLATION EXPECTATION INVENTORY INVENTORY STOCK INVENTORY

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DEFLATOR INV COMMUNICATIONS INDST - BLDG & ENG CONST
DEFLATOR INV COMMUNICATIONS INDST - MACH & EQUIP
DEFLATOR INV FIN INS & REAL ESTATE INDST - BLDG CONST
DEFLATOR INV FIN INS & REAL ESTATE INDST - BLDG CONST
DEFLATOR INV PORBSTRY INDST - BLDG & ENG CONST
DEFLATOR INV MANUF TOTAL - MACH & EQUIP
DEFLATOR INV MANUF TOTAL - MACH & EQUIP
DEFLATOR INV MANUF TOTAL - BLDG & ENG CONST
DEFLATOR INV MANUF TOTAL - BLDG & ENG CONST
DEFLATOR INV MINING TOTAL - BLDG & ENG CONST
DEFLATOR INV COMMER SVCS INDST - BLDG CONST
DEFLATOR INV COLLEGE & UNIV EDUC - MACH & EQUIP
DEFLATOR INV OTHER NONCOMMER SVCS INDST - BLDG CONST
DEFLATOR INV OTHER NONCOMMER SVCS INDST - BLDG CONST
DEFLATOR INV TRANSPORT INDST - BLDG & ENG CONST
DEFLATOR INV TRANSPORT INDST - BLDG & ENG CONST
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DEFLATOR INV UTILITY INDST - BLDG & ENG CONS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           EXPORTS SEXTICE RECEIPTS - PERIGHT & SHIPPING - WORLD EXPORTS SEXTICE RECEIPTS - FERICHT & HIGRANTS FUNDS - WORLD EXPORTS SERVICE RECEIPTS - INORMER RECEIPTS - WORLD EXPORTS SERVICE RECEIPTS - TOTAL SEX - WORLD EXPORTS SERVICE RECEIPTS - TOTAL SEX - WORLD EXPORTS SERVICE RECEIPTS - PERSONAL REMITTANCES - WORLD IMPORTS SERVICE RECEIPTS - PERSONAL REMITTANCES - WORLD IMPORTS DISCREPANCY BETWEEN NA & BAL OF PYMTS FIGURES IMPORTS DISCREPANCY BETWEEN NA & BAL OF PYMTS FIGURES IMPORTS SERVICE PYMTS - DIVIDENDS - WORLD IMPORTS SERVICE PYMTS - INCOME PYMTS (EX HORLD IMPORTS SERVICE PYMTS - INCOME PYMTS (EX HORLD IMPORTS SERVICE PYMTS - INCOME PYMTS (EX HORLD IMPORTS SERVICE PYMTS - OTHER SERVICES - WORLD IMPORTS SERVICE PYMTS - TRAVEL - WORLD CAPITAL CONSUMPTION ALLOWANCES & BUSINESS UNREHITED PROFITS OF THE PROFILE PROFILE PARTS - UNREMITTED PROFITS OF THE PARTS - BUSINESS UNREHITED PROFITS OF THE PARTS - BUSINESS UNREHIT DEPARTS OF THE PARTS - SEX - TRAVEL - WORLD CAPITAL CONSUMPTION ALLOWANCES & MISC VALUATION ADJOURDED OF THE PARTS - DEPARTS OF THE PARTS - DESCRIPTION ALLOWANCES & MISC VALUATION ADJOURDED OF THE PARTS - DEPARTS - DESCRIPTION ALLOWANCES & MISC VALUATION ADJOURDED OF THE PARTS - DEPARTS - DESCRIPTION ADJOURDED OF THE PARTS - DEPARTS - DEPAR
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OVERSEAS GROSS FIXED CAPITAL FORMATION - PRICE DEFL - WID
EXCH RAIE - WID RAFE OF 5 OVERSEAS CNTRS IN TERMS OF CDN $
UNITED KINDOM - CONSOLS RAIE - AVERAGE FLAIT YIELD
US - CAP CONSUMP ALLOWANCES WITH CAP CONSUMP ADJ
US - PRIME COMMERCIAL PAPER 4-6 MONTHS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   EXPORTS ADJUSTMENT (NA BOP DISCREPANCIES) - WORLD EXPORTS RESIDUAL MERCHANDISE ADJUSTMENT - WORLD
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          DUMMY VARIABLE - TRADE BLOCK
DUMMY VARIABLE - TRADE BLOCK
DUMMY VARIABLE - TRADE BLOCK
DUMMY VARIABLE - TRADE BLOCK
DUMMY VARIABLE - TRADE BLOCK
DUMMY VARIABLE - TRADE BLOCK
DUMMY VARIABLE - TRADE BLOCK
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            PERSONAL SAVINGS
```

VARIABLES EXOGENOUS TO THE BALANCE OF PAYMENTS BLOCK

.FFEA.OFS.DIFF TBK.LL. BPMADJ TBK.LL.PS\$ FOREIGN EXCH TRANSACTIONS EXCL FROM BOP & GOVT ACCTS CPTL ACCT - PROV & MUNIC BONDS - ADJ ENTRY CDN STOCKS - TOTAL

MISC,

CPTL

CPTL CPTL CPTL

- ALLOCATION OF SPECIAL DRAWING RIGHTS - ADJ ENTRY RE INTERNATIONAL RESERVES - MISC LONG-TERM TRANSACTIONS ACCT

TBK.LN.OTHTRS\$

TBK.URES.ADJ

TBK. SDRS

TDUMDEPREC

BLOCK - FIXED EXCH. RATE PERIOD VARIABLE - BOP BLOCK - DEPRECIATION ALLOWANCES - FOREIGN ACQUISITIONS - GOVT INTERVENTION BLOCK BOP BOP VARIABLE -VARIABLE ACCT DUMMY

医医医医医医医医医医医医医

TDUMFRNAOSN

TDUMFIX

TDUMGVINTV

TDUMNCKTVR

TDUMPETOGASINV

TDUMPULPINV

TDUM68CRS

TDUMSALE TDUM610N

TDUMRSV

RESERVES FINANCING

PULP INVESTMENT

ENERGY INVESTMENT

FDUM72-73

TDUM730N

- NICKEL TAKEOVER BLOCK BLOCK BLOCK BLOCK BOP BOP BOP BOP VARIABLE VARIABLE VARIABLE VARIABLE VARIABLE DUMMY

DUMMY DUMMY DUMMY DUMMY DUMMY

DUMMY DUMMY DUMMY

DUMMY DUMMY BLOCK BOP BOP VARIABLE VARIABLE

BLOCK

BLOCK BLOCK BLOCK

- FOR. EXCH. CRISIS

DUMMY

VARIABLE

VARIABLE VARIABLE

INVESTMENT, FIXED NONRESIDENTIAL CHANGE IN BUSINESS INVENTORIES, TOTAL

BOND RATE, INDUSTRIAL

TOTAL

RATE,

BOND

ZUSFRMCS

ZUSFRMCSI ZUSIBFNS

ZUSIBITS ZUSPDGNP ZUSYPDSAVS

ZUSRET\$

ZUSPDIBFN

IMPLICIT DEFLATOR, FIXED INVESTMENT, NONRESIDENTIAL INVENTORY VALUATION ADJUSTMENT, CORPORATE PROFITS

UNDISTRIBUTED CORPORATE PROFITS, TOTAL

PERSONAL SAVINGS

IMPLICIT DEFLATOR, GROSS NATIONAL PRODUCT

1 1 1 1

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CANDIDE MODEL 2.0
OCTOBER, 1979
SECTION 35, PAGE 11
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           TBK.LL.PBNNIC$ + TBK.LL.PBOC$
TBK.LL.BF$ + TBK.LL.PS$
                                                                                                                                              = TBC.BAL.TRVLW$ + TBC.BAL.INCFLW$ + TBC.BAL.FRSHW$
+ TBC.BAL.OSERW$ - GRF.DT.NR$
                                                                                                                                                                                                          - (TMSIMFDWS + TMSPERRMWS + GEF_TRN.,OCONTS)
TBC_BAL,MREMWS + TBC_BAL,SERWS + TBC,BAL,NTFRWS
PTE.CA.G+W / PTM.CA.G+SW
PTE.CA.GW / PTM.CA.GA.GW
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 TBK.LA.PT+S$ + TBK.LL.PT+S$
TBK.BAL.DINVS + TBK.BAL.PTRANS$ + TBK.LN.OTHTRS$
TBC.BAL.CAWS + TBK.BAL.LTFMS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                TBK.LL.BPMADJ (PRIMARY, SECONDARY - SEE NOTE)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                TBK.URES$/U(-1) + ((TBK.BALOFS$ - TBK.SDR$)
A RACAN) - TBK.URES.AD.
TBK.LBALOFS$ - FFFS.OFS.JIFF
TBK.LL.DINVCU$ + .256 * Y.URPROF.CORP$
                               (TEGWS + TEREMANS + TENABPADJWS) - (TMGWS
                                                                                              TMSIN+MIPWWS
                                                                                                                                                                                                                                                                                                                                                                                                                                                         - (FGD,P+MGOV(-1) - FGD,P+MSEC,PUB(-1))
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      + TBK.STK.FRINUUS(-1)
= TBK.LL.DINUCRS + .064 * Y.URPROF.CORPS
+ TBK.STK.FRINURS(-1)
                                                                                                                                                                                  = (TESIMFDW$ + TESPERRMW$ + GRF.DT.NR$)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      TBK.BALOFS$ - TBK.BALB$ - TBK.SDR$
TBK.BAL.LTFM$ + TBK.BAL.STFM$
TBK.STF.STFM$/U(-1) + (TBK.BAL.STFM$
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              = TBK.STK.FRINVUS + TBK.STK.FRINVRS
= TBK.STK.FRDSECS(-1) + TBK.LL.BFS
= TBK.STK.PRANSCS(-1) + TBK.LL.BPMS
= TBK.STK.NRCPBS(-1) + TBK.LL.BCS
= TBK.STK.STFMS/U * REXCAN
                                                                                                                                                                                                                                                                                                                           TBK.LL.DINVCUS + TBK.LL.DINVCR$
                                                                                                                                                                                                                                                                                                                                                                                 TBK.LA.DINVFUS + TBK.LA.DINVFR$
                                                                                                                                                                                                                                                                                                                                                                                                      TBK.LL.DINVC$ + TBK.LA.DINVF$
                                                                                                                                                                                                                                                                                                                                                                                                                                            (FGD.P+MGOV - FGD.P+MSEC.PUB)
                                                                                       TESINCRCWS - (TMSDIVPYW$ +
                                                   + TMREMAW$ + TMNABPDSCYW$)
                                                                        TESTRAVELWS - TMSTRAVELWS
                                                                                                                              = TESOTHSERW$ - TMSOTHSERW$
                                                                                                            TESFRSHWS - TMSFRSHWS
               - TMGWS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                / REXCAN)
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                             TBC.BAL.MERBPW$
                                                               TBC.BAL.TRVLWS
                                                                                                                                                                                                                                              TBC. TMOTRADEG+S
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            TBK.BAL.PTRANS$
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   TBK.STK.FEDSEC$
TBK.STK.PRMNSC$
TBK.STK.NRCPB$
                                                                                                     TBC.BAL.FRSHW$
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          TBK.STK.STFMS/U
                                                                                                                                                                                    TBC.BAL.NTFRW$
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         TBK.STK.FRINVUS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             TBK.STK.FRINVR$
                                                                                                                                                                                                                                                                                   TBK.LL.DINVCUS
                                                                                                                                                                                                                                                                                                     TBK.LL.DINVCR$
                                                                                                                                                                                                                                                                                                                                           TBK.LA.DINVFUS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    TBK.LL.PBNNICS
           TBC.BAL.MERW$
                                                                                                                                              TBC.BAL.SERW$
                                                                                                                                                                                                                                                                 TBC. TMOTRADEG
                                                                                                                                                                                                                                                                                                                                                                               TBK.LA.DINVF$
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    TBK.LL.PBOC$
TBK.LL.BC$
TBK.LL.PT+S$
TBK.LA.PT+S$
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 TBK.STK.FRINV$
                                                                                                                                                                                                                                                                                                                           TBK.LL.DINVC$
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      TBK.BAL.STFM$
                                                                                                                                                                                                                            TBC. BAL. CAWS
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                                                                                                                                                                                                                                                                                                                                                                                                                                          TBK.LL. BPMS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         TBK.BALOFS$
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                TBK.URES$/U
                                                                                                                                                                                                                                                                                                                                                                                                                        TBK.LL.BFS
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       TBK. BALBS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        TBK. BALKS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             REXCAN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      FFEA.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       OFFICIAL EXCESS DEMAND FOR SPOT EXCHANGE (OFFIC SETTLE BAL) SPOT EXCHANGE RATE IN $CAN PER UNIT OF $US
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 OF FOREIGN DIRECT INVST IN CDA
OF FED SECURTIES HELD BY NONRES
OF PROV & MUNIC SECURITIES HELD BY NONRES
OF COMG-TERM CORP SEC HELD BY NONRES
OF SHORT TERM LIABILITIES HELD BY NONRES
MERCHANDISE BALANCE - TOC BASIS - WORLD MERCHANDISE BALANCE - BOP BASIS - WORLD
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           $US
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ROW FOREIGN DIRECT INVST IN CDA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  CPTL ACCT - CDN BONDS - NET NEW ISSUES - CORPORATE
CPTL ACCT - CDN BONDS - OUTSTANDING - CORPORATE
CPTL ACCT - CANADIAN SECURITIES
CPTL ACCT - CANADIAN SECURITIES
CPTL ACCT - BALANCE ON PORTFOLIO TRANSACTIONS
CPTL ACCT - BALONG-ON PORTFOLIO TRANSACTIONS
CPTL ACCT - BALONA-TERM MOVEMENTS
CPTL ACCT - BALONA-TERM MOVEMENTS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           US FOREIGN DIRECT INVST IN CDA
                                                                                                                                                                                                                 CURRENT ACCOUNT BALANCE - WORLD
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          NET SHORT TERM INT LIABLTY BTW CDN & ROW (IN US$)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                90-DAY PORWARD EXCHANGE RATE IN $CAN PER UNIT OF
                                                                                                                                                                                                                                                                     DIRECT INVESTMENT IN CANADA - U.S.
DIRECT INVESTMENT IN CANADA - ROW
DIRECT INVESTMENT IN CANADA - TOTAL
DIRECT INVESTMENT ABROAD - U.S.
DIRECT INVESTMENT ABROAD - ROW
DIRECT INVESTMENT ABROAD - ROW
                                                      BALANCE ON TRAVEL - WORLD
BALANCE ON INCOME FLOWS - WORLD
BAL ON PREIGHT & SHIPPING - WORLD
BAL ON OTHER SERVICES - WORLD
BAL ON TOTAL SERVICES - WORLD
                                                                                                                                                                                                                                                                                                                                                                                                                              CDN BONDS - PROVINCIAL & MUNICIPAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         FOREIGN EXCHANGE ACCOUNTS
                                                                                                                                                                                                                                   OF TRADE - GOODS & SERVICES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                CDN FOREIGN EXCHANGE RESERVES - (MI OF $US)
                                                                                                                                                                                                                                                                                                                                                                                        BALANCE ON DIRECT INVESTMENT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    CPTL ACCT - BAL ON SHORT TERM MOVEMENTS
                                                                                                                                                                                                                                                                                                                                                                                                          CANADIAN BONDS - FEDERAL
                                                                                                                                                                                                                 TOTAL CURRENT ACCOUNT ITERMS OF TRADE - GOODS TERMS OF TRADE - GOODS
                                                                                                                                                                           NET TRANSFERS - WORLD
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            - NET CAPITAL BALANCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  EXPECTED SPOT EXCHANGE RATE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       CPTL ACCT - STOCK OF
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             CPTL ACCT - STOCK OF
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   STOCK
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       STOCK
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           STOCK
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                                                                                                                                                                                                             CURR ACCT
CURR ACCT
CURR ACCT
CPTL ACCT
                    ACCT
                                                                          ACCT
ACCT
ACCT
CURR ACCT
                                                          ACCT
                                                                                                                                                                         CURR ACCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            CPTL ACCT
CPTL ACCT
CPTL ACCT
CPTL ACCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          CPTL ACCT
                    CURR ,
                                                                                                                                  CURR
                                                        CURR
                                                                            CURR
                                                                                              CURR
                                                                                                                CURR
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B

C

IF BEHAVIOURAL THEN THIS IDENTITY IS RENORMALIZED ON FGD.P+MSEC.PUB AS FGD.P+MSEC.PUB = (FGD.P+MGOV - FGD.P+MGOV(-1)) - TBK.LL.BPM\$ + FGD.P+MSEC.PUB(-1) + TBK.LL.BPMADJ AND REPLACES THE EQUATION FOR FGD.P+MSEC.PUB IN THE FINANCIAL BLOCK.

CPTL ACCT - FOREIGN CAPITAL STOCK - MARKET VALUE

NOTE:

Equation No.: 2237

Name: Capital Account -- Direct Investment in Canada -- United States

Mnemonic: TBK. LL. DINVCU\$ Period: 1959-75

TBK.LL.DINVCU\$ / ((IBNAM\$ - IAGFTM\$ + IBNACO\$ - IAGFTC\$ + INV\$ - INVAG\$ - Y.URPROF.CORP\$ - Y.B.CCA\$) * (TBK.STK.FRINVU\$ / KSTOCK\$))

= + .63029 (5.98)

+ .082757

(3.29)

- .045333 (2.04) TDUMDE PREC

TDUM66

+ .068310 (3.18)

TDUM68CRS

+ sum(i=1,3)b(i) ((ZUSIBFN\$(-i) + ZUSIBIT\$(-i) - ZUSRET\$(-i)) / (ZUSYPDSAV\$(-i) + ZUSIVAC\$(-i) + ZUSCCAT\$(-i) + ZUSRET\$(-i)))

+ sum(i=2,5)c(i)

-.95649

sum

(((PFGFC(-i) + PFGFC(-i-1) + PFGFC(-i-2) + PFGFC(-i-3)

+ PFGFC(-i-4)) / 5) - (((ZUSPDIBFN(-i)

+ ZUSPDIBFN(-i-1) + ZUSPDIBFN(-i-2) +

+ ZUSPDIBFN(-i-2) + ZUSPDIBFN(-i-3) + ZUSPDIBFN(-i-4)) / 5) / 100))

+0.86660

(1.62)

b(i) t(i) c(i) i t(i) 1 -.45509 (3.25)2 -. 16784 (1.21)-0.27164 (0.27)3 -. 33357 (1.94)+2.26319 (3.78)4 +1.48406 (2.20)

5 -2.60901 (3.74)

(2,3,NONE) (2,4,NONE)

(4.00)

 $\frac{-2}{R^2} = .850$ SEE = .0205 D.W. = 2.338

Where KSTOCK\$

- = (IKAGFTC * PFIAGFTC) + (IKAGFTM * PFIAGFTM) + (IKCNSTC
 - * PFICNSTC) + (IKCNSTM * PFICNSTM) + (IKCOMMC543.8
 - * PFICOMMC543.8) + (IKCOMMM543.8 * PFICOMMM543.8)
 - + (IKFIREC701.37 * PFIFIREC701.37) + (IKFIREM701.37
 - * PFIFIREM701.37) + (IKFSTYC31.9 * PFIFSTYC31.9)
 - + (IKFSTYM31.9 * PFIFSTYM31.9) + (IKMFC * PFIMFC)
 - + (IKMFM * PFIMFM) + (IKMIC * PFIMIC) + (IKMIM * PFIMIM)
 - + (IKSVCMC * PFISVCMC) + (IKSVCMM * PFISVCMM)
 - + (IKSVHGEDC806 * PFISVHGEDC806) + (IKSVHGEDM806
 - * PFISVHGEDM806) + (IKSVNCC * PFISVNCC) + (IKSVNCM
 - * PFISVNCM) + (IKTRADC602.99 * PFITRADC602.99)
 - + (IKTRADM602.99 * PFITRADM602.99) + (IKTRSPC501.27
 - * PFITRSPC501.27) + (IKTRSPM501.27 * PFITRSPM501.27)
 - + (IKUTILC572.9 * PFIUTILC572.9) + (IKUTILM572.9
 - * PFIUTILM572.9)

Equation No: 2238

Name: Capital Account -- Direct Investment in Canada --

Rest of World

Mnemonic: TBK.LL.DINVCR\$ Period: 1959-75

TBK.LL.DINVCR\$ / ((IBNAM\$ - IAGFTM\$ + IBNACO\$ - IAGFTC\$ + INV\$ - INVAG\$ - Y.URPROF.CORP\$ - Y.B.CCA\$) * (TBK.STK.FRINVR\$ / KSTOCK\$))

= + 1.59509 (4.35)

> + 1.57867 (((PFGFC + PFGFC(-1) + PFGFC(-2) + PFGFC(-3) (1.70) + PFGFC(-4)) / 5) - (((ZOSGFCFWTP

> > + ZOSGFCFWTP(-1) + ZOSGFCFWTP(-2)

+ ZOSGFCFWTP(-3) + ZOSGFCFWTP(-4)) / 5) / 100))

+ .082271 TDUMSALE (1.33)

+ .12346 TDUMPETOGASINV (2.24)

- .130995 TDUM69 (2.07)

- 1.26556 ZOSREXWT(-1) (3.96)

+ .038639 (FRATE.GBOND.10Y(-1) - ZUKFRCONSOLS(-1))

 $R^2 = .771$ SEE = .0581 D.W. = 2.185

Where KSTOCK\$

= (IKAGFTC * PFIAGFTC) + (IKAGFTM * PFIAGFTM) + (IKCNSTC

* PFICNSTC) + (IKCNSTM * PFICNSTM) + (IKCOMMC543.8

* PFICOMMC543.8) + (IKCOMMM543.8 * PFICOMMM543.8)

+ (IKFIREC701.37 * PFIFIREC701.37) + (IKFIREM701.37

* PFIFIREM701.37) + (IKFSTYC31.9 * PFIFSTYC31.9)

+ (IKFSTYM31.9 * PFIFSTYM31.9) + (IKMFC * PFIMFC)

+ (IKMFM * PFIMFM) + (IKMIC * PFIMIC) + (IKMIM * PFIMIM)

+ (IKSVCMC * PFISVCMC) + (IKSVCMM * PFISVCMM)

+ (IKSVHGEDC806 * PFISVHGEDC806) + (IKSVHGEDM806

* PFISVHGEDM806) + (IKSVNCC * PFISVNCC) + (IKSVNCM

* PFISVNCM) + (IKTRADC602.99 * PFITRADC602.99)

+ (IKTRADM602.99 * PFITRADM602.99) + (IKTRSPC501.27

* PFITRSPC501.27) + (IKTRSPM501.27 * PFITRSPM501.27)

+ (IKUTILC572.9 * PFIUTILC572.9) + (IKUTILM572.9

* PFIUTILM572.9)

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Equation No.: 2240
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Name: Capital Account -- Direct Investment Abroad -- United States

Mnemonic: TBK.LA.DINVFU\$ Period: 1956-75

(TBK.LA.DINVFU\$ * .001) / ((ZUSIBFN\$ + ZUSIBIT\$ - ZUSRET\$) * REXCAN)

+ .0019216
(1.51)

(1.63)

+ .0026121 TDUMFRNAQSN

(5.86)
- .014341 (((PFGFC(-1) + PFGFC(-2) + PFGFC(-3)

+ PFGFC(-4) + PFGFC(-5)) / 5) -(((ZUSPDIBFN(-1) + ZUSPDIBFN(-2) + ZUSPDIBFN(-3) + ZUSPDIBFN(-4) + ZUSPDIBFN(-5)) / 5) / 100))

- .00097995 TDUMNCKTVR (0.64)

+ sum(i=0,1)b(i) ((S\$(-i) + Y.B.CCA\$(-i) + Y.URPROF.CORP\$(-i)) - (S\$(-i-1) + Y.B.CCA\$(-i-1) + Y.URPROF.CORP\$(-i-1)))

+ sum(i=1,2)c(i) (FRATE.IBOND.10Y(-i) - ZUSFRMCSI(-i))

i b(i) t(i) c(i) t(i)
0 -.00000016465 (1.58)

1 -.00000032930 (1.58) -.00065595 (1.66) 2 -.0013119 (1.66)

sum -.00000049395 (1.58) -.0019679 (1.66)

(1,2,NEAR) (1,2,NEAR)

 $\overline{R}^2 = .897$ SEE = .000558 D.W. = 2.407

Equation No.: 2241

Name: Capital Account -- Direct Investment Abroad -- Rest of World

Mnemonic: TBK.LA.DINVFR\$ Period: 1957-75

TBK. LA. DINVFR\$

+
$$sum(i=0,2)b(i)$$
 (ZOSGFCFWT(-i) - ZOSGFCFWT(-i-1))

$$+ sum(i=0,2)c(i)$$
 (S\$(-i) - S\$(-i-1))

$$\overline{R}^2 = .952$$
 SEE = 21.919 D.W. = 1.416

```
Equation No.: 2244
```

Name: Capital Account -- Canadian Bonds -- Federal

Period: 1959-75 Mnemonic: TBK.LL.BF\$

TBK.LL.BF\$

+ ZUSCCAT\$(-i-2) + ZUSRET\$(-i-2)))))

i	b(i)	t(i)
0	-315.34800	(0.62)
1	-647.10700	(1.68)
2	-831.82200	(2.03)
sum	-1794.28000	(1.44)
	(2,3,NONE)	

Equation No.: 2245 (Secondary)

Name: Capital Account - Canadian Bonds - Provincial and Municipal

Mnemonic: TBK.LL.BPM\$ Period: 1959-75

TBK.LL.BPM\$

- ZUSRET\$(-2)) / (ZUSYPDSAV\$(-2) + ZUSIVAC\$(-2) + ZUSCCAT\$(-2)

$$\bar{R}^2 = .977$$

SEE = 124.52

D.W. = 2.202

Name: Capital Account -- Canadian Bonds, Net New Issues -- Corporate

Mnemonic: TBK.LL.PBNNIC\$ Period: 1959-75

TBK.LL.PBNNIC\$

= - 310.28800 (3.57)

+ .0940192 ((IBNACO\$ + IBNAM\$ - Y.B.CCA\$
(7.01) - Y.URPROF.CORP\$) - (IBNACO\$(-1)
+ IBNAM\$(-1) - Y.B.CCA\$(-1) Y.URPROF.CORP\$(-1)))

+ 237.13700 TDUM610N

(6.10)

- 110.73100 TDUMGVINTV

(3.28)

- 165.84500 TDUM67

(3.16)

+ 220.19800 TDUMPULPINV

(5.02)

+ sum(i=0,1)b(i) (FRATE.IBOND.10Y(-i) - ZUSFRMCSI(-i))

i b(i) t(i)

0 +277.15500 (4.55) 1 + 63.9584 (0.80)

sum +341.113 (4.64)

(1,2,NONE)

 $R^2 = .952$ SEE = 46.826 D.W. = 2.61

Name: Capital Account -- Canadian Bonds, Outstanding -- Corporate

Mnemonic: TBK.LL.PBOC\$ Period: 1959-75

TBK.LL.PBOC\$

i	b(i)	t(i)	c(i)	t(i)		
0	+424.45200	(2.38)	+.0031391	(0.97)		
1	+748.01800	(3.52)	0061753	(1.41)		
2			+.0015931	(0.31)	0044487	(1.30)
3					0048093	(1.13)
4					0010817	(0.43)
5					+.0067341	(3.42)
6					+.018638	(2.10)
sum	+1172.47000	(3.72)	0014432	(0.18)	+.015032	(7.00)
	(1,2,NONE)		(2,3,NONE)			

$$R^2 = .824$$

SEE = 8.611

D.W. = 3.002

Name: Capital Account -- Foreign Securities

Period: 1959-75 Mnemonic: TBK.LA.PT+S\$

TBK.LA.PT+S\$

+
$$sum(i=1,3)b(i)$$
 (ZUSIBFN\$(-i) + ZUSIBIT\$(-i) - ZUSRET\$(-i))

- (Y.URPROF.CORP\$(-i-2) + IN.VANAG\$(-i-2)

+ GS\$(-i-2) + Y.CCA+MVA\$(-i-2))))

i	b(i)	t(i)	c(i)	t(i)		
1 2 3	+6.16851 -13.95750 +11.42690	(2.62) (4.18) (4.15)	061412 018135 +.0019222	(4.80) (1.60) (0.17)		
sum	+ 3.63792	(8.54)	077625	(2.82)		
	(2,3,NONE)		(2,3,NONE)			

$$R^2 = .987$$

Equation No.: 2256

Name: Official Excess Demand for Spot Exchange (Official Settlements

Balance)

Mnemonic: TBK.BALOFS\$ Period: 1951-75

TBK.BALOFS\$

$$R^2 = 0.565$$

SEE = 276.06 D.W. = 2.089

Equation No.: 620

Name: Spot Exchange Rate in Canadian\$ Per Unit of U.S.\$

Mnemonic: REXCAN Period: 1954-75

REXCAN

$$\overline{R}^2 = 0.926$$
 SEE = 0.013 D.W. = 2.300

Equation No.: 2257

Name: 90-Day Forward Exchange Rate in Canadian\$ Per Unit of U.S.\$

Mnemonic: REXCANFWD Period: 1954-75

REXCANFWD

 $R^2 = 0.977$

SEE = 0.716 D.W. = 1.155

-107.89600

(3.33)

Name: Expected Spot Exchange Rate

Mnemonic: REXCANEXP Period: 1954-75

REXCANEXP

= + 1.02633(29.45)+ 0.02477 TDUMFIX (1.19)((1 - TDUMFIX(-1)) * REXCAN(-1))+ 0.01277 (0.35)((1 - TDUMFIX) * (.CPIE - 0.01762 / ((0.6 * ((ZUSPDGNP(-1) (2.23) / ZUSPDGNP(-2)) - 1) * 100)+ (0.3 * ((ZUSPDGNP(-2) / ZUSPDGNP(-3)) - 1) * 100) + (0.1 * ((ZUSPDGNP(-3) / ZUSPDGNP(-4)) - 1) * 100)))) (TDUMFIX(-1) * (1 / (TBK. URES\$/U(-1) + 60.71930 / REXCAN(-1)))) (0.54)

 $R^2 = 0.912$ SEE = 0.014 D.W. = 2.219

* (1 / (TBK.URES\$/U(-1) / REXCAN(-1))))

((1 - TDUMFIX)

Equation No.: 2958

Name: Capital Account -- Foreign Capital Stock -- Market Value

Mnemonic: FC Period: 1957-75

FC

= + 2748.12000 (1.03)

> + 13300.40000 TDUM730N (4.10)

1.97948 TBK.STK.FRINV\$ (14.46)

 $\overline{R}^2 = 0.975$ SEE = 3415.5 D.W. = 1.491







GOVERNMENT DEBT, ASSET DEMAND, MONEY SUPPLY, INTEREST RATES, AND THE MORTGAGE MARKET

The financial block of CANDIDE Model 2.0 includes

- (1) a debt portfolio model, (2) an asset portfolio model,
- (3) a reaction function for the short term interest rate,
- (4) term structure equations with intervening variables for the remaining interest rates, and (5) a mortgage market model.

The debt portfolio model of the federal government is an important part of the financial block. The government of Canada is an important user of financial resources in the economy. It relies on the financial resources available in the economy to cover the difference between revenue and expense, to finance changes in foreign exchange reserves, and to lend to CMHC and to other crown corporations. The sources of funds available to the federal government include running down federal cash balances or going to domestic or foreign markets to issue debt. The debt portfolio model links the deficit position of the federal government, changes in the foreign exchange asset accounts, CMHC loan activity, the accruals versus collection problem, and other financing requirements to the composition of debt required to finance such activity.

Total financing requirements are split into two components: (1) requirements financed by running down federal deposits and (2) requirements financed by issuing new interest bearing debt. The level of government deposits in the Canadian institutional framework is a secondary tool of monetary policy. The level of these deposits is determined behaviourally as a function of total government current expenditures (including transfers) and the finance company paper rate. This function can be viewed as the demand function for money of the federal government. The change in the level of deposits is then subtracted from total financing requirements to arrive at what must be financed by issuing new interest bearing debt. The composition of new federal debt is influenced by the rate of inflation, the change in the level of treasury bills held by chartered banks, the ratio of Canadian to U.S. short term interest rates and the lagged stock of federal government debt.

The debt portfolio model has been estimated using a three stage least square technique under constraint. This insures that a consistent set of substitution elasticities exist between competing debt instruments. Estimation under constraint insures that the sum of sources equals uses.

Just as the federal sector is an important user of financial resources in the economy so the nonfinancial

public is a major supplier of such financial resources. The assets of the nonfinancial public are in fact partly composed of debt issued by the federal government. Thus, the other side of the financing problem involves the nonfinancial public.

The nonfinancial public asset portfolio model is composed of nine asset demand functions. During simulations, two of these asset demand functions are replaced by supply equations. The CSB asset demand equation is replaced by a supply equation from the debt portfolio model. The asset demand equation associated with municipal and provincial bonds is replaced by an identity. The identity is the difference between total municipal and provincial government financing requirements and that which is financed abroad. The nine assets in the asset demand model are (1) currency, (2) chartered bank demand deposits, (3) chartered bank savings deposits, (4) chartered bank term deposits, (5) deposits at other financial institutions, (6) deposits at trust and mortgage companies, (7) Canada Savings Bonds held by the public, (8) Government of Canada securities held by the public and (9) provincial and municipal securities held by the public.

The asset portfolio model of the nonfinancial public is also estimated under constraint using a three

stage least square technique. This insures consistent substitution between assets. Included in those things that influence the composition of assets held by the nonfinancial public is a vector of interest rates, one associated with each asset. Also included in the explanation are price and activity levels. The asset demand model associated with the portfolio of the nonfinancial public is used to determine the composition of assets. However in simulation, because we have removed two demand equations and replaced them with supply equations, the asset portfolio model determines not only the composition but also the level of assets by way of the asset multiplier.

In the asset portfolio model currency and demand deposits are determined by two asset demand equations. As a result the key short term interest rate in the model, the finance company paper rate, is specified as a reaction function and not as a renormalized asset demand function.

This key rate is related to: (1) U.S. interest rates, (2) the past history of domestic inflation rates, (3) the level of outstanding government debt, and (4) the level of earning assets of the chartered banks. The remaining interest rates in the model are all specified as term structure equations with intervening variables. There is an

interest rate individually associated with each of the nine assets in the portfolio model. Term structure equations relate these interest rates to the finance company paper rate, to own asset levels and in some cases to the U.S. long term rate. For instance, in the government long term rate equation, the stock of government bonds and the finance company paper rate enter the equation with a positive elasticity. This implies that as the stock of government bonds increases the interest rate associated with this asset will increase, even if there is no change in the finance company paper rate.

The mortgage market model provides input to the business residential investment block and also influences the determination of the conventional and NHA mortgage rates. In the mortgage market model both mortgage approvals and mortgage assets of various financial institutions are determined. The assets of life insurance companies are influenced by personal savings. The earning assets of trust and mortgage companies and chartered banks are determined in the asset portfolio model. Mortgage approvals of insurance companies, of trust and mortgage companies and of chartered banks are influenced by the earning assets of these institutions, interest rates associated with mortgage assets, a proxy for interest rates associated with competing assets (the government bond rate), and the lagged dependent

variable. The level of mortgage assets held in the previous year depresses mortgage approvals in each case. Once we have on hand estimates of mortgage approvals, mortgage assets can be derived from estimated equations which include as right hand side variables lagged mortgage assets and lagged mortgage approvals. From these equations we derive the survival rates associated with new mortgage assets by institution.

One should recognize that money supply (Ml) within CANDIDE Model 2.0 is implicitly determined. It is bound up in the debt portfolio, the asset portfolio, the short rate reaction function, and the long term rate term structure equations outlined above. If the federal government runs a deficit, it must finance it. The debt portfolio determines the composition of financing (the CSB equation in the debt portfolio model produces an estimate of the supply of CSB's). This, plus other inputs to the asset portfolio model including the short rate and the implied long rates, gives an estimate of both the composition and the level of assets which the nonfinancial public will hold. Two of these assets include currency and demand deposits. The financing decision of the federal government eventually affects the money supply (M1) through the route of debt portfolio and asset portfolio. Remembering that the rate of growth of Ml enters with a weight of .3 in the inflation expectation

equation, we can easily see the long run impact that government financing decisions have on wage formation.

VARIABLES DETERMINED OUTSIDE THE MONETARY SECTOR BLOCK

MONETARY SECTOR BLOCK

GROSS NATIONAL EXPND AT MARKET PRICES
DEFLATOR GROSS NATIONAL EXPENDITURE (GNE)
MULTIPLE DWELLING UNITS, STOCK AT END OF YEAR
SINGLE DETACHED DWELLING UNITS, STOCK AT END OF YEAR CONSUMER EXPENDITURE - TOTAL DURABLE GDS AS PER NA CPTL ACCT - CDN BONDS - PROV & MUNIC CPTL ACCT - PROV & MUNIC BONDS ADJ ENTRY PRIME COMMERCIAL PAPER 4-6 MONTHS CHANGE IN FOREIGN EXCHANGE ASSETS FED GOVT EXPND - TOTAL CURRENT PROVINCIAL & MUNICIPAL BONDS GOVERNMENT DEFICIT - FEDERAL PRIVATE CONTRACTUAL SAVINGS BOND RATE, INDUSTRIAL TOTAL HOUSEHOLDS

TBK.LL.BPMADJ

ZUSFRMCSI

TBK. LL. BPMS ZUSFRMCP4M

RSST

FGD. P+MGOV

FFEA DHOHO GEF.C\$ PFGNE

GDF\$

GNES RMST SPC\$ FLOANS, CMHC

DUMMYFIX DUMMY61 DUMMY67 DUMMY 60

PG DF AD J\$ 69XWWNQ

医阿萨瓦尼氏氏氏氏征医氏氏征氏征

FMAP. CMHC.SD FRR.DD

FSECRESRATIO

FADJ. CASHBASIS FLOANS .OTHER FMAP. CMHC. MD

FRESERVES. ADJ

VARIABLES EXOGENOUS TO THE MONETARY SECTOR BLOCK

FIXED EXCHANGE RATE REGIME DUMMY CHANGE IN OTHER LOANS CHANGE IN CMHC LOANS

FLEXIBLE EXCHANGE RATE REGIME DUMMY FINANCIAL INTERMEDIATION DUMMY MORTGAGE MARKET DUMMY

NHA MORTGAGE RATE DUMMY BANK ACT DUMMY

FEDERAL GOVT DEFICIT (SOURCES OF FINANCE) ADJ MORTGAGE APPROVALS BY CMHC - MULTIPLE DWELLINGS ADJUSTMENTS TO A CASH BASIS

APPROVALS CMHC - SINGLE DWELLINGS REQUIRED RESERVE RATIO ON DEMAND DEPOSITS (PRIMARY) ADJUSTMENT MORTGAGE RESERVES

REQUIRED RESERVE RATIO ON SAVINGS DEPOSITS

SECONDARY RESERVE RATIO

VARIABLES ENDOGENOUS TO THE MONETARY SECTOR BLOCK (BOTH BEHAVIOURAL & IDENTITIES)

= - GDP\$ + FADJ.CASHBASIS + .FFEA + .FLOANS.CMHC + .FLOANS.OTHER - FGDFADJ\$ B .FG + (FDEP.GVC - FDEP.GVC(-1)) B .FG + (FDEP.GVC - FDEP.GVC(-1)) B .FGD.TBILL + FGD.TBILL(-1)FGD.CSB + FGD.CSB(-1)FGD.CSB + FGD.CSB(-1)FGD.CSB - FGD.CSB.CDFGD.CSB - FGD.CSB.PUBFGD.CSB - FGD.CSP.PUBFGD.CSB - FGD.CSP.CSB - FGD.CSP.CSB - FGD.CSB - FG	B B B B (PRIWARY AND SECONDARY - SEE, NOTE) P CURENCY, PUBLC + FDEP, DDPUB, CB + FDEP, SAVPUB, CB + FDEP, OTHPUB, CB + FODE, PUB, TM + FODE, PUB, OFI FUD. CSB, PUB + FUD. GVCSEC, FUB + FCD, P+MSEC, PUB B B CO. CSB, PUB + FCD, GVCSEC, FUB + FCD, P+MSEC, PUB B B CO. CSB, PUB + FCD, GVCSEC, FUB + FCD, P+MSEC, PUB B CO. CSB, PUB + FCD, GVCSEC, FUB + FCD, P+MSEC, PUB B CO. CSB, PUB + FCD, GVCSEC, FUB + FCD, P+MSEC, PUB B CO. CSB, PUB + FCD, GVCSEC, FUB + FCD, P+MSEC, PUB B CO. CSB, PUB + FCD, GVCSEC, FUB + FCD, P+MSEC, PUB B CO. CSB, PUB + FCD, GVCSEC, FUB + FCD, P+MSEC, PUB B CO. CSB, PUB + FCD, GVCSEC, FUB + FCD, P+MSEC, PUB B CO. CSB, PUB + FCD, GVCSEC, FUB + FCD, P+MSEC, PUB B CO. CSB, PUB + FCD, GVCSEC, FUB + FCD, P+MSEC, PUB B CO. CSB, PUB + FCD, GVCSEC, FUB + FCD, P+MSEC, PUB B CO. CSB, PUB + FCD, GVCSEC, FUB + FCD, P+MSEC, PUB B CO. CSB, PUB + FCD, FCD, FCD, PUB + FCD, PTD, PTD, PUB + FCD, P+MSEC, PUB B CO. CSB, PUB + FCD, FCD, FCD, PUB + FCD, PTD, PUB, PUB + FCD, PTD, PUB, PUB + FCD, PTD, PUB, PUB, PUB, PUB, PUB, PUB, PUB, PUB	FMAP.CB + FMAP.LI + FMAP.TM + FMAP.CMRC.SD + FMAP.CMHC.MD FDEP.DDPUB.CB + FDEP.SAVPUB.CB + FDEP.OTHFUB.CB + FDEP.OTHPUB.CB) / 180.9	PR PR PD PC (PC (PC
	PDEP-OAPPOBLCB PDEP-OUSTM PDEP-PUB.TM PDEP-PUB.TM PDD.CSB-PUB PGD.CSB-PUB PGD.CYCSEC_PUB PGD.P-PUB PT.NASSET.PUB PARA-CB PARA-CB PARA-CB PARA-CB PARA-CB	0	FRESERVE.ODEP = FRESERVES.ODEP = FGD.TB.CODEP = FEANASSET.CB = FMONEYSUPLY = FATTE.CBLEDD.18Y B FRATE.CBLEDD = FRATE.
GE IN TOTAL FIN R OF CDA DEPOSITS I GE IN TREASURY BILLS GE IN CANADA SAVI) GE IN CONT OF CDA L TREASURY BILLS DA SAVINGS BONDS OF CDA BONDS OF CDA BONDS L INTEREST BEARING SEC (OHT THAN CSS DA SAVINGS BONDS I L INTEREST BEARING SEC (OHT THAN CSS OF OUTSIDE BANKE BUTSIDE BANKE SEC (OHT THAN CSS CONTINUE OF OUTSIDE BANKE SEC (OHT THAN CSS ON CONTINUE OF OUTSIDE BANKE SEC (OHT THAN CSS ON CONTINUE OF OUTSIDE BANKE SEC (OHT THAN CSS ON CONTINUE OF OUTSIDE BANKE SEC (OHT THAN CSS ON CONTINUE OF OUTSIDE BANKE ON CONTINUE OF OUTSIDE BANKE SEC (OHT THAN CSS ON CONTINUE OF OUTSIDE BANKE ON CONTINUE OF OUTSIDE OF OUTSIDE OF OUTSIDE OF OUTSIDE OF OUTSIDE OUT	CDN DOLLAR DEPOSITS - OTHER NOTICE - CHARTERED BANKS CDN DOLLAR DEPOSITS - TRUST & MONTGAE LOAN COMPANIES CDN SAVINGS BONDS HELD BY PUBLIC CDN SAVINGS BONDS HELD BY PUBLIC GDN SAVINGS BONDS HELD BY PUBLIC FINANCIAL ASSETS OF PUBLIC ASSETS OF LIFE INSURANCE COMPANIES MORTGAE APPROVALS BY CHARTERED BANKS MORTGAE APPROVALS BY THEF INSURANCE COMPANIES	MORTGACE ASSETS OF LIFE INSURANCE COMPANIES MORTGACE ASSETS OF LIFE INSURANCE COMPANIES MORTGACE ASSETS OF THREED BANKS TOTAL CDN DOLLAR DEPOSITS RESERVES ON CDN DOLLAR DEPOSITS GOVERNMENT OF CDA DEPOSITS WITH CHARTEDED BANKS	RESERVES ON OTHER DEPOSITS THEASURY BILLS HELD BY CHARTERED BANKS DEPOSITS AND NOTES OF CHARTERED BANKS HELD BY BANK OF CDA EANNINGS ASSETS OF CHARTERED BANKS HELD BY BANK OF CDA MONEY SUPPLY - NARROW DEFINITION HIGH POWER HONEY GOTT OF CDA BOND YIELD AVERAGES 18 YRS AND OVER HIGH POWER HONEY BOND YIELD AND OVER HIGHORY, WELR BOND YIELD AND THE (MONTH BUD) INTEREST ON TRUST CO 5 YR GURRANTEED INVESTMENT CERTIFICATES CHARTERED BANK 98-DAY DEPOSIT RECEIPTS

FRATE.CONMORT
FRATE.NHAMORT
FRMC
FRATE.PROG.BOND
FRATE.CSB

m m 11 m m

IF TBK.LL.BPM\$ IS B THEN THIS BEHAVIOURAL EQUATION IS REPLACED BY
THE IDENTITY FGD.P+MSEC.PUB = (FGD.P+MGOV - FGD.P+MGOV(-1)) - TBK.LL.BPM\$ + FGD.P+MSEC.PUB(-1) + TBK.LL.BPMADJ

NOTE:

/ 2.0

(FRATE.CONMORT + FRATE.NHAMORT)

CONVENTIONAL MORTGAGE LENDING RATE
NHA INTEREST RATES ON APP'D LENDERS - HOMEOWNERSHIP
AVERAGE MORTGAGE RATE (CONVENTIONAL PLUS NHA)
YIELD ON LONG TERM PROVINCIAL BONDS
YIELD ON CANADA SAVINGS BONDS

Name: Government of Canada Deposits with Bank of Canada and

Chartered Banks

Mnemonic: FDEP.GVC

Period: 1953-76

ln(FDEP.GVC)

= - 5.15510 (5.46)

+ 1.35158

- 0.280276

ln(GEF.C\$)

(10.12)

ln(FRATE.FCPAPER3M)

(1.27)

 $R^2 = 0.894$ SEE = 0.275 D.W. = 2.050 RHO = -0.305

DEBT PORTFOLIO CHOICE MODEL

		•FGD•CSB	.FGD .BOND	.FGD.TBILL
1.	((PFGNE(-1) / PFGNE(-2)) - 1) * 100	- 78.29397 (3.34)	55.19845 (2.03)	23.09552 (0.88)
2.	.FGD.TSEC	0.61967 (12.78)	0.29362 (5.21)	0.08671 (1.59)
3.	FGD.TB.CB FGD.TB.CB(-1)		0.85773 (3.43)	
4.	FRATE.FCPAPER3M(-1) / ZUSFRMCP4M(-1)	- 560.16516 (4.39)	728.52952 (4.91)	
5.	FGD.TSEC(-1)	0.05140 (5.14)		0.00701 (0.62)
6.	R ²	0.96011	0.75845	0.60939
7.	D.W.	1.71775	2.66508	2.74600
8.	Equation Number	2292	2293	2291

Equation No.: 2308

Name: Canada Savings Bonds held by Public

Mnemonic: FGD.CSB.PUB Period: 1952-75

FGD.CSB.PUB

= **-** 95.52190 (8.78)

+ 0.97678 FGD.CSB (626.07)

 $\overline{R}^2 = 1.000$ SEE = 28.634 D.W. = 1.038

ASSET PORTFOLIO CHOICE MODEL Dynamic Model (Level Form)

FGD, GVCSEC.	0.08785		3427.2429 (12.12)				-2504.7910 (11.37)	-2280.4641 (1.67)		2879.2167	1634.0710 (4.67)	-0.12912 (2.32)	0.17516 (4.67)	0.88286	2,15116	2309
FGD.P+MSEC. FGD.	0.05691 (1.37)		-2798.0796 34 (10.45) (2504.7910 -25 (11.37) (-1999.9972 -22 (1.52)		10098.781 28	-3460.4127 16 (12.43)	0.12732 (2.34)	0.17516 (4.67)	926660	2.56635	2310
FGD, CSB, F	0.18645 (4.47)		-629.16330 -2 (7.30)		455.62320 (5.58)			-4562.0681 -1 (2.36)		9166.3084 10 (4.86)	-1173.9220 -: (2.77)	-0.13150 (2.43)	0.17516 (4.67)	0.98964	2.04367	2308
FDEP OTHPUB.	0.21282 (5.15)			-93.04168 (1.25)	-313,81197 (4.10)	95.76201 (2.53)			693.59379 (7.04)	-2937,3181 (3,73)	846.79415 (3.49)	-0.12290 (2.31)	0.17516 (4.67)	0.99751	2,45185	2305
FDEP SAVPUB.	0.20620 (21.31)	236.82019 (5.92)								-6086.6544 (6.79)	1845.6523 (5.05)		0.17516 (4.67)	0.99768	2,10657	2304
FDEP.PUB.	0.11915 (23.56)			93.04168 (1.25)		-95.76201 (2.53)		7092.1092 (7.53)	-555.67005	-7924.7061 (9.02)	-1192.7080 (6.30)		0.17516 (4.67)	0.99911	2.58377	2306
FDEP .PUB.	0.04926	27.99353 (2.05)			-141.81123 (7.71)			-2397.6240 (4.54)	-137.92374 (4.71)	-2570.0509 (5.34)	1545,9908 (14.89)	0.05117	0.17516 (4.67)	0.99961	1,49350	2307
FDEP DDPUB.	0.06535	-235.98056 (8.11)						3466.8340 -(3.37)		-1327.0139 - (1.33)	-352.92341 (2.09)		0.17516 (4.67)	80966°0	1.90073	2303
FOURENCY.	0.01602 (2.08)	-28.83315 (4.53)						681.21015 (2.10)		1298.5629 (4.33)	307.45782 (4.97)	0.02987	0.17516 (4.67)	0.99921	1.54395	2302
	FFINASSET. PUB	FRATE .FCPAPER3M	FRAIE GEOND. 10Y	FRATE.IM	FRATE, CSB	FRATE, CBDEP, 3M	FRATE, PROG, BOND	GNE\$ / FFINASSET.PUB	DUMMY 67	CONSTANT	(PFGNE / FFINASSET,PUB) * 1000	FFINASSET.PUB(-1)	LAGGED DEP VAR.	\mathbb{R}^2	D.W.	EQUATION NUMBER

Equation No.: 2312

Name: Assets of Life Insurance Companies

Mnemonic: FASSETS.LI Period: 1955-75

FASSETS.LI - FASSETS.LI(-1)

= + 279.95700 (3.84)

+ 0.32357 SPC\$ (9.82)

 $R^2 = 0.884$ SEE = 148.400 D.W. = 1.335 RHO = 0.298

Equation No.: 2313

Name: Mortgage Approvals by Chartered Banks

Period: 1955-75 Mnemonic: FMAP.CB

FMAP.CB

$$R^2 = 0.929$$

$$SEE = 232.500$$

Name: Mortgage Approvals by Life Insurance Companies

Mnemonic: FMAP.LI Period: 1955-75

FMAP.LI

- 128.61900 (0.17)

> + .13580 FASSETS.LI (3.72)

+ 68.18610 (FRMC / FRATE.GBOND.10Y) (0.15)

.24831 FMORTA.LI(-1) (1.94)

+ .33519 FMAP.LI(-1) (1.68)

+ 29.91610 DUMMY67 (0.11)

+ 181.38800 DUMMY60 (1.32)

 $R^2 = 0.717$ SEE = 168.67 D.W. = 2.693 RHO = -.333

Equation No.: 2315

Name: Mortgage Approvals by Trust and Mortgage Loan Companies

Mnemonic: FMAP.TM Period: 1960-75

FMAP.TM

$$=$$
 - 2364.72 (0.33)

$$\overline{R}^2 = 0.913$$
 SEE = 457.66 D.W. = 1.493

Name: Mortgage Assets of Life Insurance Companies

Mnemonic: FMORTA.LI Period: 1955-75

FMORTA.LI

= - 100.79100 (3.89)

> + 0.97716 FMORTA.LI(-1) (171.46)

+ 0.22360 FMAP.LI (5.18)

+ .46861 FMAP.LI(-1) (9.83)

 $\overline{R}^2 = 1.000$ SEE = 36.859

D.W. = 1.661

Equation No.: 2320

Name: Mortgage Assets of Trust and Mortgage Loan Companies

Mnemonic: FMORTA.TM

Period: 1960-75

FMORTA.TM

= - 73.8842 (2.17)

> + .87386 FMORTA.TM(-1) (35.20)

FMAP.TM + .46954 (7.50)

+ .52007 FMAP.TM(-1) (6.64)

 $R^2 = .999$ SEE = 120.32 D.W. = 2.889 RHO = -0.421

Equation No.: 2321

Name: Mortgage Assets of Chartered Banks

Mnemonic: FMORTA.CB Period: 1955-76

FMORTA . CB

= + 44.6277 (1.79)

> + .90128 FMORTA.CB(-1) (28.21)

+ .55795 FMAP.CB (6.71)

+ .23465 FMAP.CB(-1) (1.93)

 $\overline{R}^2 = .998$ SEE = 115.82 D.W. = 2.549 RHO = -0.417

Equation No.: 2326

Name: Government of Canada Deposits with Chartered Banks

Mnemonic: FDEP.GVC.CB Period: 1954-76

FDEP.GVC.CB

= - 63.9879 (3.58)

+ 1.00693 FDEP.GVC (103.33)

 $\overline{R}^2 = .999$ SEE = 46.321 D.W. = 1.455 RHO = .247

Equation No .: 2335(Primary)

Name: 90 Day Finance Company Paper Rate

Mnemonic: FRATE.FCPAPER3M Period: 1955-76

FRATE. FCPAPER3M

(2,4,NONE)

$$R^2 = .924$$
 SEE = .595

¹ +. 18141 (2.69)

Equation No .: 2335(Secondary)

Name: 90 Day Finance Company Paper Rate

Mnemonic: FRATE.FCPAPER3M Period: 1955-76

FRATE.FCPAPER3M

This equation is a renormalization of the equations in the asset portfolio model for FCURENCY.PUBLIC and FDEP.DDPUB.CB (Equations 2302, 2303).

Name: Government of Canada Bond Yield Averages 10 Years and Over

Mnemonic: FRATE.GBOND.10Y Period: 1955-76

FRATE.GBOND.10Y

+ sum(i=0,3)b(i) FRATE.FCPAPER3M(-i)

(2,4,NONE)

$$\overline{R}^2 = .986$$
 SEE = .216 D.W. = 0.748 RHO = .608

Equation No.: 2225

Name: McLeod, Young, Weir Bond Yield, Average of Ten Industrials

Period: 1955-76 Mnemonic: FRATE. IBOND. 10Y

FRATE. IBOND. 10Y

= + .75060(7.26)

> ZUSFRMCSI + .71335 (10.00)

+ sum(i=0,3)b(i) FRATE.FCPAPER3M(-i)

i b(i) t(i)

(5.65) +.18270 0 +.11217 (4.77)

1 +.06068 (2.85)

+.02822 (0.99) 3

sum +.38376 (4.63)

(2,4,NONE)

 $R^2 = .995$

SEE = .13839 D.W. = 1.823

Name: Chartered Bank Prime Business Loan Rate

Mnemonic: FRATE.CBLEND Period: 1952-76

FRATE.CBLEND

= - .98684 (0.56)

+ .20629 (3.88)

FRATE.FCPAPER3M

- 3.26648

DUMMY67

(7.91)

+ .33614 FRATE.CBLEND(-1)

(6.87)

+ .55074 (FRATE.FCPAPER3M * DUMMY67)

(8.75)

+ .45447 ln(CD)

(1.90)

 $R^2 = 0.986$ SEE = .208 D.W. = 1.116 RHO = .463

Equation No: 2338

Name: Interest on Trust Company 5 Year Guaranteed Investment

Certificates

Mnemonic: FRATE.TM

Period: 1955-76

FRATE. TM

= + .69103

(1.06)

+ .51101

FRMC

(4.36)

+ .23980

FRATE.CBDEP.3M

(4.61)

+ .09856 (2.04)

FRATE.CBDEP.3M(-1)

 $\overline{R}^2 = .973$ SEE = .32520 D.W. = .249 RHO = .900

Name: Chartered Bank 90-Day Deposit Receipts

Mnemonic: FRATE.CBDEP.3M

Period: 1954-76

FRATE.CBDEP.3M

= - 2.83776 (5.62)

> + .67572 (3.09)

FRATE.CBLEND

+ .45791 FRATE.TM

(2.18)

+ .60185 (1.68)

DUMMY61

 $\bar{R}^2 = .936$

SEE = .573 D.W. = 2.081

Equation No.: 2340

Name: Conventional Mortgage Lending Rate

Mnemonic: FRATE.CONMORT Period: 1959-75

FRATE.CONMORT

+ 23.40910
(2.42)

+ 1.10749 FRATE.GBOND.10Y (24.18)

- 39.46330 (FMAP.TOT / (PFGNE * DHOHO)) (2.14)

- 21.15320 ((RSST + RMST) / DHOHO) (2.29)

 $\overline{R}^2 = 0.995$ SEE = .116 D.W. = 1.524

Name: NHA Mortgage Rate

Mnemonic: FRATE.NHAMORT Period: 1959-75

FRATE . NHAMORT

+ 41.73020 (2.43)

> + 0.96002 FRATE.GBOND.10Y (8.60)

- 33.81300 (FMAP.TOT / (PFGNE * DHOHO)) (1.19)

- 38.79250 ((RSST + RMST) / DHOHO) (2.39)

+ 0.55351 DUMMY69 (2.86)

 $\overline{R}^2 = .990$ SEE = 0.177 D.W. = 2.131 RHO = -0.230

Equation No .: 2343

Name: Yield on Long Term Provincial Bonds

Period: 1955-75 Mnemonic: FRATE.PROG.BOND

FRATE.PROG.BOND

+ sum(i=0,3)b(i) FRATE.FCPAPER3M(-i)

(2,4,NONE)

$$R^2 = 0.993$$
 SEE = .157 D.W. = 1.274 RHO = .284



Name: Yield on Canada Savings Bonds

Mnemonic: FRATE.CSB Period: 1954-75

FRATE.CSB

+ sum(i=0,2)b(i) FRATE.FCPAPER3M(-i)

i	b(i)	t(i)
0	+0.43162	(8.07)
1	+0.10712	(1.99)
2	+0.16295	(2.35)
sum	+0.70169	(6.03)

(2,3,NONE)

 $R^2 = .955$ SEE = .404 D.W. = .728 RHO = .620









ANOTHER PLASTITAB PRODUCT BY LOWE-MARTIN COMPANY INC.







Contained in this appendix is a listing of all variables found in CANDIDE Model 2.0. The listing contains (1) the mnemonic, (2) the span over which the data series is available, (3) a description of the series, (4) the units, and (5) the source. A more detailed description of each data series associated with CANDIDE Model 2.0 is also available. This includes the information available in this appendix, a more detailed description of the source sighted, and a listing of the data. This listing is available upon request.





TABLE 3 NAMING CONVENTIONS FOR VARIABLES IN CANDIDE MODEL 2.0

INITIAL CHARACTERS	DESCRIPTION
•	Variable in change formulation
c	Consumption
D	Demography
E	Pseudo Real Domestic Product
F	Financial
G	Government
GE	Government Expenditure
GEF	Governemnt Expenditure - Federal
GEH	Government Expenditure - Hospitals
GEL	Government Expenditure - Municipal and Local
GEP	Government Expenditure - Provincial
GR	Government Revenue
GRF	Government Revenue - Federal
GRH	Government Revenue - Hospital
GRL	Government Revenue - Municipal and Local
GRP	Government Revenue - Provincial
Н	Average Weekly Hours
I	Investment
IED	Investment - Economic Depreciation
IET	Investment - Effective Corporate Tax Rate
IK	Capital Stock
ILF	Investment - Economic Life

INITIAL CHARACTERS DESCRIPTION

INV Inventory Stock

IRL Investment - Depreciation Rules

ITC Investment - Tax Credit

ITD Investment - Tax Depreciation

IUC Investment - User Cost

IIZ Investment - Discounted Capital Cost

M Manhours Worked

N Employment

PFC Consumption Final Demand Deflator

PFGE Government Final Demand Deflator

PFGEF Government Final Demand Deflator - Federal

PFGEH Government Final Demand Deflator - Hospitals

PFGEL Government Final Demand Deflator - Municipal and Local

PFGEP Government Final Demand Deflator - Provincial

PFI Investment Final Demand Deflator

PFINV Inventory Stock Final Demand Deflator

PF## Pseudo Final Demand Deflator

PTE.CA Export Final Demand Deflator (Canadian S)

PTE.US Export Final Demand Deflator (U.S. \$)

PTM.CA Import Final Demand Deflator (Canadian \$)

PTM.US Import Final Demand Deflator (U.S. S)

PX Industry Value Added Deflator

R Residential

S Personal Savings

TNTTTAL.	CHARACTERS	DESCRIPTION
THITTUM	CHAINCIDIO	DED CITT TION

TB Balance of Payments

TE Exports

TM Imports

W Wage Rate

WB Wagebill

X Real Domestic Product

Y Nonwage Income Items

Z Foreign Variables

ZFR Foreign Variables - France

ZGFR Foreign Variables - Germany

ZIT Foreign Variables - Italy

ZJA Foreign Variables - Japan

ZOECD Foreign Variables - OECD

ZOS Foreign Variables - OECD less U.S.

ZUK Foreign Variables - UK

ZUS Foreign Variables - US

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OI RATIO OF POLL TIME UNDERGRAD ENROLMENT TO POPULATION 15-24

OI RATIO OF PART-TIME UNDERGRAD ENROLMENT TO POPULATION 20-29

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NATIO OF MARRIAGES TO POPULATION TO NET INNIGRATION
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CANADA SAVINGS BORNDS HELD BY FINANCIAL INSTITUTIONS

CONT OF CANADA BORNDS HELD BY FINANCIAL INSTITUTIONS

CONT OF CANADA SECURITIES (OTHER THAN CSB'S) HELD BY PUBLIC

CONT OF CANADA SECURITIES (OTHER THAN CSB'S) HELD BY PUBLIC

CONT OF CANADA SECURITIES (OTHER THAN CHAR BY CONTINES HELD BY CHARTERED BANKS)

PROVINCIAL AND MUNICIPAL SECURITIES HELD BY CHARTERED BANKS

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COM DOLLAR DEPOSITS - PERSONAL SAVINGS - CHARTERED BANKS
DEPOSITS AND NOTES OF CHARTERED BANKS HELD BY BANK OF CANADA
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MCLEDD, YOUNG, WIER BOND VIELD AVERAGE OF 10 INDUSTRIALS
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TOTAL PRIVATE NEW RESIDENTIAL SINGLE MORTGGE APPROVALS
MORTGAGE APPROVALS BY TRUST & MERIGAGE LOAN COMPANIES
MORTGAGE APPROVALS BY TRUST & MERIGAGE COMPANIES
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CANADA PENSION PLAM - NO OF DEATH BENEFITS
                                                       ON TRUST CD 5 YR GUARANTEED INVESTMENT CERTIFICATES
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- APPROXIMATE MAGE INDEX
DEATH BEREFIT
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FED GCUT EXPND - CAPITAL ASSISTANCE, PERSONS
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FAMILY ALLOWANCE BENEFIT RATE PER ANNUM CHILD 10-15
YOUTH ALLOWANCE BENEFIT RATE PER ANNUM CHILD 16-17
DESCRIPTION

WHA INTEREST RATES ON APP'D LEWDERS - HOMEOWNERSHIP

VIELD ON PROVINCIAL GOVERNMENT BONDS
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UNEMPLOYMENT INSURANCE - BENCHMARK UNEMPLOYMENT RATE
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19 ECUN DEPR MISC MANUF INDST - MACH E COUP E CICUE

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                                                                                                                                                                                                       TOTAL NON-DURABLES AS PER NAT.ACC. FOOD AND MON-ALCOHOLIC BEVERAGES
                                                  - TOTAL DURABLE GODDS AS PER NAT.ACC
                                                                                                                                                                                    SEMI-CURABLE HOUSEHOLD FURNISHINGS
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                                                                                                                                                      WOMEN'S CIRLS AND INFANTS WEAR
                                                                                                                                                                           BUCKS NEWSPAPERS AND MAGAZINES
                                                                                                                                                                                               JENELLERY WATCHES AND REPAIRS
                                                                                                                                                                                                                                                                     - TOTLET ANTICLES AND COSMETICS
- ELECTRICITY
                                                                                          NEW AND USED NET AUTOMOBILES
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- TRAVEL EXPENDITURE RECEIPT
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                                                                                                                                            MEN'S AND BOY'S CLOTHING
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GDS ESRVS, NONDEF WAGE SE SALARIES
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HOSP GOVT EXPND - GESERVS, WAGESESALARIES SLI
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SOURCE TRANSFORMATION	TRANSFORMATION
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NV NON AUTO TRANSPORT EQUIP — MACH & EQUIP & CICOE

NV NOT VEH INDST (EX PARTSEACC) — MACH & EQUIP & CICOE 197

NV NOT VEH INDST (IN PARTSEACC) — MACH & EQUIP & CICOE 197

NV ELECTRICAL MIN PROD INDST — MACH & EQUIP & CICOE 197

NV NON METAL MIN PROD INDST — MACH & EQUIP & CICOE 197

NV MANUF TOTAL — MACH & EQUIP & CICOE 197

NV MANUF TOTAL — MACH & EQUIP & CICOE 197

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NV ENATTHE E LIDITING INDST - MACH E EQUIP E CICOE

NV ENATTHER E LIDITING INDST - MACH E EQUIP E CICOE

NV PRINT, PUB E ALLIED INDST - MACH E EQUIP E CICOE

NV PRINT, PUB E COL PROD INDST - MACH E EQUIP E CICOE

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VARIABLE - TRADE BLOCK - AIRCRAFT EXPORTS
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VARIABLE - BOP BLOCK - DEPRECIATION ALLOMANCES
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COPP.CONSTRUCTION INDUSTRIES

COPP.COMUNICATION INDUSTRIES

COPP.COMUNICATION INDUSTRIES

COPP.COMUNICATION INDUSTRIES

LOHWY VARIABLE - REAL DOMESTIC PRODUCT BLOCK

DUMMY VARIABLE - REAL DOMESTIC PRODUCT BLOCK

ROP. FURNIC AND STRATION FE BLOCK

COPP. PUBLIC ADDIMISTRATION FE CERAL DOMESTRIES

COPP. PUBLIC ADDIMISTRATION FE CERAL DOMESTRIES

COPP. PUBLIC ADDIMISTRATION FE DER AL JOTAL

COPP. PUBLIC ADDIMISTRATION FE DER AL JOTAL

COPP. PUBLIC ADMINISTRATION FE DER AL JOTAL

COPP. PUBLIC ADMINISTRATION FE CRAL OVERNMENT

COPP. PUBLIC ADMINISTRATION FE CRAL OVERNMENT

COPP. PUBLIC ADMINISTRATION FE CONCRNOOTTIES

COPP. PUBLIC ADMINISTRATION FOR LONG FENCE JOTAL

COPP. PUBLIC ADMINISTRATION FOR LONG FENCE JOTAL

COPP. PUBLIC ADMINISTRATION FOR LONG DEFENCE JOTAL

COPP. PUBLIC ADMINISTRATION FOR LONG DOTTIES

COPP. PUBLIC ADMINISTRATION FOR TAXUE

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GDP, NOW FERROUS WITAL INDUSTRIES
GDP, METAL FABRICATING INDUSTRIES
GDP, MACHINERY (EX ELEC MACH) INCUSTRIES
GDP, MACHINERY (EX ELEC MACH) INCUSTRIES
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RDP.CRD PET.MATL GAS.GSERW.INCID..TC MINING INDUST.

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GDP.MATAL MINING INDUSTRIES

GDP.MCH METAL MINING INDUSTRIES

RDP.MCH METAL MINING (EXCEPT CO.M.) INDUSTRIES

GDP.MCH METAL MINING (EXCEPT CO.M.) INDUSTRIES

GDP.GORGESTIC PRODUCT.TOTAL ECONOMY

RDP.GORGESTIC PRODUCT.TOTAL ECONOMY
                                                  RDP, MOTOR VEHICLE INDUSTRIES (EX PARTS AND ACC)
GDP, MOTOR VEHICLE INDUSTRIES (EX PARTS AND ACC)
RDP, MOTOR VEHICLE PARTS AND ACCESSORIES INDUSTRIES
RDP, ELECTRICAL PRODUCTS INDUSTRIES
RDP, ELECTRICAL PRODUCTS INDUSTRIES
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COP, MANUFACTURING AND BUVRAGE INDUSTRIES

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1 COP, FOOD AND DEVERAGE INDUSTRIES

1 COP, TOBACC PRODUCTS IMDUSTRIES

1 COP, TOBACC PRODUCTS IMDUSTRIES

1 COP, LEATHER AND PLASTICS PRODUCTS INDUSTRIES

1 COP, LEATHER AND PLASTICS PRODUCTS INDUSTRIES

1 COP, LEATHER AND PLASTICS PRODUCTS INDUSTRIES

1 COP, LEATHER AND LEATHES AND CLOTHING INDUSTRIES

1 COP, RETTILE INDUSTRIES

1 COP, RETTILE INDUSTRIES

1 COP, RETTILE INDUSTRIES

1 COP, PRIMITING, PUBLISHING AND ALLIED INDUSTRIES

1 COP, PRIMITIAL AND CHAMICAL PREDUCTS INDUSTRIES

1 COP, PRIMITAL AND CHAMICAL PREDUCTS INDUSTRIES

1 COP, CHEMICAL AND CHEMICAL PREDUCTS INDUSTRIES
                                                                                                                    RDP, NON METALLIC MINERAL PRODUCTS INDUSTRIES GDP, NON METALLIC MINERAL PRODUCTS INDUSTRIES
    COP, TRANSPORTATION EQUIPMENT INDUSTRIES
COP, TRANSPORTATION EQUIPMENT INCUSTRIES
RDP, MCN AUTO TRANSPORT EQUIPMENT INDUSTRIES
COP, MON AUTO TRANSPORT EQUIPMENT INDUSTRIES
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DIVIDENDS PAID TO MON-RESIDENTS
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DUNNY WARIABLE - NET NATIONAL INCOME AND PROFITS BLOCK
FRANCE - INDEX OF TOTAL INDUSTRIAL PRODUCTION
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FRANCE - TRADE MEIGHT, TOTAL FRENCH/KOM TRADE
GERMANY - EXPORT PRICE, AUTOS & PARTS - DEUTSCHE MARKS
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JAPAM - TRADE WEIGHTS, TOTAL JAPAMESE/CDM TRADE
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RPP, COLLEGE AND UNIVERSITY EDUCATION
GDP, COLLEGE AND UNIVERSITY EDUCATION
RDP, DTHER BONCOMMERIAL SERVICES INDUSTRIES
GDP, GTHER NONCOMMERCIAL SERVICES INDUSTRIES
GDP, WHOLESALE AND RETALL TRACE INDUSTRIES
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GDP, TRACESORTATION REQUIYERES
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                                   GVERSEAS GROSS FIXED CAPITAL FORMATION - WTD

OVERSEAS GROSS FIXED CAPITAL FORMATIOM - PRICE DEFLATOR - WTD

OVERSEAS INDEX OF INDUSTRIAL PREDUCTION
                                                                                                                                                                     TRADE
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EXPEND, SERVICES, OTHER
EXPEND, SERVICES, TRAMSPORTATION
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PERSONAL CONSUMP EXPENDITURES, MOTOR VEHICLES & PARTS
PERSONAL CONSUMP EXPENDITURES, MOTOR VEHICLES & HSHOLD EQUIP
PERSONAL CONSUMPTION EXPENDITURES, MOTORDRABLE GOODS
PERSONAL CONSUMP EXPENDITURES, MOTORDARABLE GOODS
PERSONAL CONNENCIAL PARER 4-6 MERTES
                                                                                                     DVERSEAS COUNTRIES IN TERMS OF CON
                                                                                                                                                     UK - EXCHANGE RATE - CDN.DOLLARS PER BRITISH POUND
UNITED KINGDOM - TRADE WEIGHT, TOTAL UNITED KINGDOM/CDN TRAD
CAPITAL CONSUNPTION ALLOWANCES BITH CAPITAL CONSUNPTION ADJ
PERSONAL CONSUMPTION, TOTAL
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PRIVATE NEW HOUSING UNITS STARTED, FARM AND MONFARM, TOTAL
INVESTMENT, NONRESIDENTIAL, STRUCTURES E EQUIPMENT, FARM
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TOTAL POPULATION INCLUDING ANNED FORCES OVERSEAS (JULY 1)
UNINGLOYNENT RATE, CIVILIAM LABER FORCE
CONSUMER PRICE INDEX, ALL ITEMS
                                                                                                                                                                                                                                                                                                                                                                                                                                CHANGE IN INVENTORIES OF (DEALERS") NEW AND USED AUTOS
                                                                                                                               UNITED KINGDOM - CONSOLS RATE - AVERACE FLAT VIELD UNITED KINGDOM - INDEX OF INCUSIRIAL PRODUCTIOM, TOTAL
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                                                                                                                     UNITED KINGDOM - CONSUMER PRICE INDEX
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SOURCE WHARTON EFA WHARTON EFA TRANSFORMATION	WHARTON EFA WHARTON EFA WHARTON EFA WHARTON EFA WHARTON EFA	<u>ac</u>
UNITS 1972 = 100. 1972 = 100. 1971=1.0	1972 = 100. 1972 = 100. 1972 = 100. 1972 = 100. 1972 = 100.	
DESCRIPTION IMPLICIT DEFLATOR, GROSS NATIONAL PRODUCT IMPLICIT DEFLATOR, FIXED INVESTMENT, NONRESTDENTIAL DEFLATOR CONS EXPEND — WITD ANERGE TRAVEL EXPENDITURE SERVICES OUTPUT, PRICE DEFLATOR, AGRICULTURE, FORESTRY & FISHERIES		UNDISKIBUTED CORPORATE PROFITS, TOTAL U.S. IMPORTS, DIRECT DEFENSE EXPENDITURES COMPENSATION PER EMPLOYEE PER WW. ALL INDUSTRIES COMPENSATION PER HANNR, WIG. DUR; TRANSPORT EQ, MOTOR VEHEPARTS COMPENSATION PER HANNR, MINING CROSS PRODUCT ORIGINATING: MUNINGATION BENEVAL OF SHEEP CROSS PRODUCT ORIGINATING: MININGATION BOD ON TOTAL MEST SPORT EQ, MOTOR VEH-EQUIP GROSS PRODUCT ORIG: MFG, DUR, NCMALTE TRANSHORT EQ, MOTOR VEH-EQUIP GROSS PRODUCT ORIG: MFG, NON CUR; PAPER AND ALLIED PRODUCTS DIVIDERO INCOME TOTAL U.S. FARM INCOME - REAL TERMS, ESTIMATE PROPURE PER SOMAL INCOME PERSONAL SAVINGS
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FRUM 194601 194601 194701	194701 194701 194701 194701	1956 1957 1957 1957 1957 1957 1957 1957 1957
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END OF DATA BANK ECC90.CANDIDE.ANN NO. OF VARIABLES=3309







